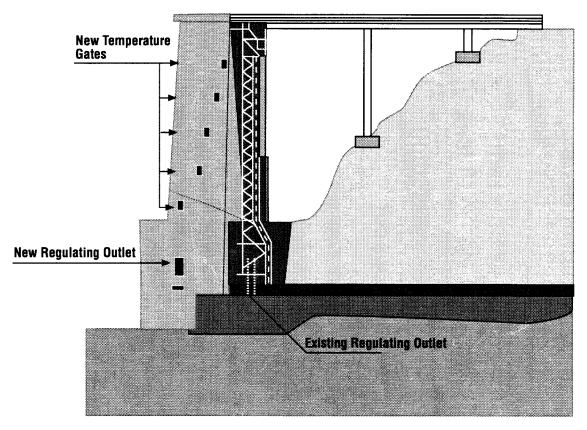


Willamette River Temperature Control McKenzie Subbasin, Oregon



Schematic of Multi-Level Intake Structure Proposed

Prepared by Portland District US Army Corps of Engineers April 1995

WILLAMETTE TEMPERATURE CONTROL McKENZIE SUBBASIN, OREGON PROJECT MANAGEMENT PLAN

Approved by:

Deputy District Engineer for Project Management

Chief, Construction Division

Chief, Contracting Division

Chief, Office of Counsel

Chief, Operations Division

Chief, Real Estate Division

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WILLAMETTE TEMPERATURE CONTROL McKENZIE SUBBASIN, OREGON PROJECT MANAGEMENT PLAN

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WILLAMETTE TEMPERATURE CONTROL McKENZIE SUBBASIN, OREGON PROJECT MANAGEMENT PLAN

1. Scope of Work.

a. <u>Background</u>. The Willamette River Basin is located in northwestern Oregon. During the last 40 years, 13 Corps reservoirs have been constructed in the basin to control floods, generate power, and provide water for navigation and irrigation. Secondary water use provides benefits for improving water quality, recreation, and fish and wildlife. State and Federal resource agencies and the Northwest Power Planning Council have been seeking modification of water temperatures downstream from two reservoirs, Blue River and Cougar Lakes, to restore pre-project temperatures for anadromous and resident fish under present flow conditions in the McKenzie River subbasin.

The McKenzie River is a tributary to the Willamette at RM 171.8 near Eugene, Oregon. The Blue River project was completed in 1969 and is located on Blue River at RM 1.7, which is a tributary to the McKenzie at RM 57. The Cougar project was completed in 1963 and is located on the South Fork McKenzie River at RM 4.5, which is a tributary to the McKenzie at RM 60. Hatchery mitigation was provided for the loss of habitat upstream from these projects. However, the projects have impacted downstream temperature regimes. Temperatures in the spring and summer are cooler than pre-project temperatures, while fall and winter temperatures are warmer than pre-project temperatures. Cooler late spring and summer temperatures impact the upstream migration of native spring chinook salmon and the growth of native trout, including bull trout. Warmer fall and winter temperatures impact the emergence timing and survival of juvenile chinook salmon.

b. <u>Project Scope</u>. The purpose of the project is to provide facilities that allow for selective withdrawal of water from various levels in the reservoirs, during periods of thermal stratification, to more closely meet pre-project temperatures below the reservoirs. The temperature control project will modify the existing intake towers by adding a new wetwell with discreet throttled ports at Blue River and Cougar projects.

Major design activities for each project include a design memorandum, a value engineering study, and plans and specifications for one construction contract at each project. Construction activities include actions to divert water and maintain flood control throughout the construction period. The construction contractor at each project will be offered the opportunity to enter into a partnering agreement with the Corps. This has proved successful in limiting cost growth and litigation on other projects in Portland District. A monitoring and evaluation program, similar in nature to what occurred on the Rogue River, is planned after construction to optimize operation of the system and resulting benefits.

c. Specific Work Requirements.

(1) Flood control will be maintained during the construction period. This will limit the construction season to approximately May through November. The actual time available for construction will be dependent upon rainfall during the period. During the draw down period for construction, the contractor may be required to suspend operations if unusually high rainfall occurs.

The project will basically be operated as run-of-river, except during flood control periods. A residual pool will be maintained throughout the summer construction season to essentially eliminate downstream sediment transfer and reduce the turbidity of the water released from the pool.

- (2) Due to requirements for diversion and care of water during construction, power production at Cougar during construction is not anticipated. No impact on Eugene Water and Electric Board's (EWEB) potential power production at Blue River has been included. EWEB was issued a FERC license for a hydropower plant at Blue River in 1989. EWEB design activities have been reviewed by the Corps to ensure that there will be no impact on temperature control construction at Blue River. The EWEB hydropower project is currently on hold due to unfavorable economic conditions.
- (3) The diversion at Cougar will handle up to 2,000 cfs during construction. The diversion will be continuously operated throughout the construction period to eliminate the transfer of suspended sediments downstream and reduce turbidity of release water. Flows above 2,000 cfs will require use of the existing regulating outlet during flood control operations.
- (4) Diving will be required during design memorandum and initial construction activities at Cougar to further refine water diversion requirements and to construct the diversion structure. Corps regulations for diving will be followed.
- (5) Construction of the two projects will be phased to limit downstream impacts during the construction period (ie., flows, turbidity). Cougar will be constructed first, followed by Blue River. The fishery resource agencies prefer installation at Cougar first because modifying water temperatures in the South Fork would restore more habitat than that available in Blue River.
- (6) U.S. Forest Service (USFS) administers lands outside of the immediate dam area. Their recreation facilities and all highways will remain open during construction. Appropriate safety precautions will be undertaken during construction as discussed in Paragraph 14. A Memorandum of Understanding will be developed with USFS for each project during plans and specifications preparation to specifically outline the responsibilities of each agency during construction.
- (7) The intake to the diversion tunnel at Cougar will be screened to retain bull trout in the residual pool habitat during construction. The resource agencies prefer to keep bull trout in the reservoir, rather than allow them to move downstream with the potential for injury through the control structure in the diversion tunnel. Coordination with the Oregon Department of Fish and Wildlife (ODFW) and U.S. Fish and Wildlife Service (USFWS) due to potential bull trout listing under the Endangered Species Act and with USFS due to Wild and Scenic Rivers Act requirements will be required throughout the project.
- d. <u>Key Assumptions</u>. Key assumptions made for planning purposes in development of the estimated cost and schedule are as follows:
- (1) The diversion tunnel used during original construction at Cougar will be used to divert water during construction of temperature control facilities. We have assumed a level of sediment and debris has deposited since construction, and that the bulkhead which sealed the diversion tunnel can

be removed. These items will be evaluated further in FDM level studies. An appropriate level of contingency has been applied in the construction estimate to cover these uncertainties.

- (2) The quantity, size and composition of sediment that will be released downstream during construction is not precisely known. Experience with other projects in similar conditions shows that this is dependent upon a number of factors, which are difficult to quantify. It is likely that there will be a period during initial draw down at each project where water with high levels of turbidity will be released downstream. Subsequent construction seasons will likely produce less suspended sediment. Potential operational changes required during construction to limit turbidity could affect the schedule.
- (3) It is assumed that there are no hazardous materials in the sediments around the intake towers or diversion structures. This would allow for disposal of the material in the pool area, although other disposal options will be considered in the design phase. Previous reports (1983) on the Willamette system have indicated that Blue River and Cougar do not have water quality problems due to naturally occurring minerals. Also, based upon previous investigations, mining operations upstream of Blue River have not impacted sediments in the area of construction. Additional testing of sediments will be conducted in the FDM phase to verify this assumption.
- (4) Based on studies in the feasibility phase, it is unlikely that hazardous materials will be discovered in any of the contractor work areas. No schedule or cost impacts have been assumed.
- (5) Minimum flows on the Willamette River will be met to the extent possible during construction. Water diversion requirements result in minimal storage capability at the projects during construction. Project outflows will equal inflows, which cannot be predicted. Modeling based upon historic flows demonstrates that, during an average year, minimum outflows from Blue River and Cougar will not be met at various times from July through September. It is assumed that reservoir regulation at the other projects in the Willamette Basin will allow the Corps to meet minimum downstream flow requirements at Albany and Salem. There have been exceptions during drought or low flow conditions on our requirement to meet these minimum flows in the past. The Corps will coordinate with appropriate agencies during construction to determine appropriate releases from other Willamette reservoirs.
- (6) As discussed in the work requirements section above, the construction season is estimated to run from May through November based upon average rainfall expected in the area. This results in about a four year construction period at each project for installation of selective withdrawal structures as identified in the feasibility study. Higher or lower than normal rainfall during construction may extend or shorten the four year schedule. We will focus on ways to shorten the construction schedule through the value engineering studies and normal design process as discussed later.
- 2. <u>Work Breakdown Structure (WBS)</u>. The WBS for the project is shown on Figure 1. The first level of the WBS is defined as the project. The WBS addresses all deliverables and end products necessary to complete construction at both projects. A detailed scope of work is provided in Appendix A for each of the products in bold on Figure 1.
- 3. <u>Organizational Breakdown Structure (OBS)</u>. The OBS (Table 1) identifies the various organizations having authority to perform work specified in the WBS, consistent with responsibilities listed in paragraph 4.

FIGURE 1 WORK BREAKDOWN STRUCTURE

Willamette Temperature Control Project (WTC)

Blue River (WTCB)

VE Studies (WTCBX)

VE Study

VE Proposals

VE Change Proposals (Contractor)

Feature Design Memorandum (WTCBU)

Engineering Analysis/Report

Real Estate Analysis/MOU

HTRW Studies

Cultural Resource Studies

Cost Estimates

Management Documents/AE Contracts

Plans and Specifications (P & S) (WTCBW)

Plans & Specs

Cost Estimates

Contract Award Documents/Activities

Engineering During Construction (WTCBWJ)

Supervision & Administration (WTCBWK)

Project Office Documents

Area Office Documents

District Office Documents

Contractor Earnings (WTCBWL)

Programs and Project Management Documents (WTCBZ)

Partnering (WTCBWN)

Cougar (WTCC)

VE Studies (WTCCX)

VE Study

VE Proposals

VE Change Proposals (Contractor)

Feature Design Memorandum (WTCCU)

Engineering Analysis/Report

Real Estate Analysis/MOU

HTRW Studies

Cultural Resource Studies

Cost Estimates

Management Documents/AE Contracts

Plans and Specifications (P & S) (WTCCW)

Plans & Specs

Cost Estimates

Contract Award Documents/Activities

Engineering During Construction (WTCCWJ)

Supervision & Administration (WTCCWK)

Project Office Documents

Area Office Documents

District Office Documents

Contractor Earnings (WTCCWL)

Programs and Project Management Documents (WTCCZ)

Partnering (WTCCWN)

TABLE 1 Organizational Breakdown Structure

Resource Name	Resource Code
Project Manager	PM
Design Branch	PE-D
Structural Design	PE-DS
Civil Design	PE-DC
Electrical Design	PE-DE
Mechanical Design	PE-DM
Geotechnical Branch	PE-G
Cost Engineering Branch	PE-C
Hydraulics & Hydrology Branch	PE-H
Hydraulic Design	PE-HD
Reservoir Regulation	PE-HR
Hydrology	PE-HY
Economics	PE-PE
Environmental Planning Team	PE-E
Fish & Wildlife	PE-E
Cultural Resources	PE-E
Technical Branch	PE-T
Real Estate	RE
Value Engineering	VE
Construction Services Branch	CO-S
Portland Resident Office	CO-FP
Contracting Division	CT
Operations (including Willamette Valley Project)	OP-V
Fishery Resource Agencies (ODFW, NMFS, USFW	S) AGEN
U.S. Forest Service	USFS
Other Corps/AE	AE

- 4. Responsibility Assignment Matrix (RAM). The RAM is provided on Figure 2, and outlines the organization assigned responsibility for each product in the WBS. It also displays the various offices that are assigned to work on each product based upon the detailed work scopes provided in Appendix A.
- 5. <u>Schedules</u>. The project schedule is provided on Figure 3. Detailed schedules for the construction contracts are provided in Appendix B. As discussed above, construction of the multilevel intake structures at the two projects has been phased to limit the impacts on the downstream watershed during construction. Cougar will be constructed first, followed by Blue River. There is a three year Preconstruction Engineering and Design (PED) schedule beginning in FY 1995. Design activities on Blue River will begin in FY 1999. Construction at Cougar will begin in the Spring of 1998, and will

last for about four years. Construction at Blue River will follow in 2002, with a duration of about four years. Congressional authorization is scheduled to occur in WRDA 1996.

The network diagram showing logical relationships between the various activities is provided on Figure 4.

6. <u>Budgets and Cost Estimates</u>. The total fully funded project cost estimate is \$45.2 million, and is summarized on Table 2. The total estimate is the sum of fully funded estimates for Cougar and Blue River of \$25.2 million and \$20 million, respectively. The Cougar and Blue River cost estimates at the 1 October 1994 price level are \$21.8 million and \$15 million, respectively. These estimates are summarized on Tables 3 and 4. Detailed budgets for the various products are provided in Appendix A. The cost estimates for construction activities have been prepared by contract in the Baseline Cost Estimate, which has been prepared in the MCACES and Civil Works Breakdown Structure format.

Yearly allocations will be entered into the Budget Management System (BMS) by the PM. The TM, responsible for the product, will suballocate funds to the team members in accordance with the scope of work and within the allocation from the PM. This will establish the yearly budget for each product. As changes are approved by a Schedule and Cost Change Request (SACCR) in accordance with the Change Control Plan, changes to the allocation and budget will be made by the PM and TM.

7. Current Benefits Plan. Operation of the Blue River and Cougar projects resulted in impacts to the environment downstream due to changed temperature conditions. The biological impacts of these temperature changes were not anticipated at the time of construction. Project justification is based upon environmental outputs of the project expressed in non-monetary benefits and an incremental analysis comparing NED costs to an estimate of returning adult spring chinook to the subbasin. In accordance with Corps policy and guidance from HQUSACE, a benefit-to-cost ratio has not been prepared. Project costs, including lost power and recreation during construction, have been analyzed. There is a Federal interest in installation of these projects based upon the significance of environmental outputs and the results of the incremental analysis.

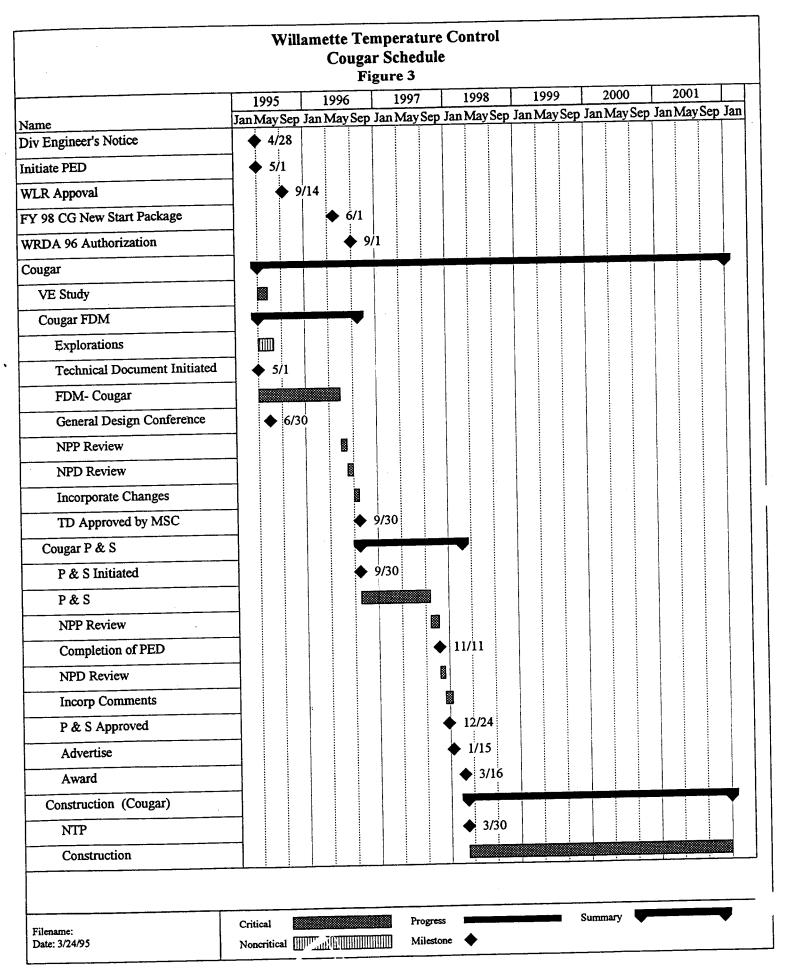
An update of the estimated project costs will be prepared in the design memorandum for both Blue River and Cougar. These costs will be compared with the estimated biological outputs of the project. Estimated biological outputs (benefits) of the project were made by USFWS in coordination with the Corps and other resource agencies based upon information gathered in the feasibility phase. The

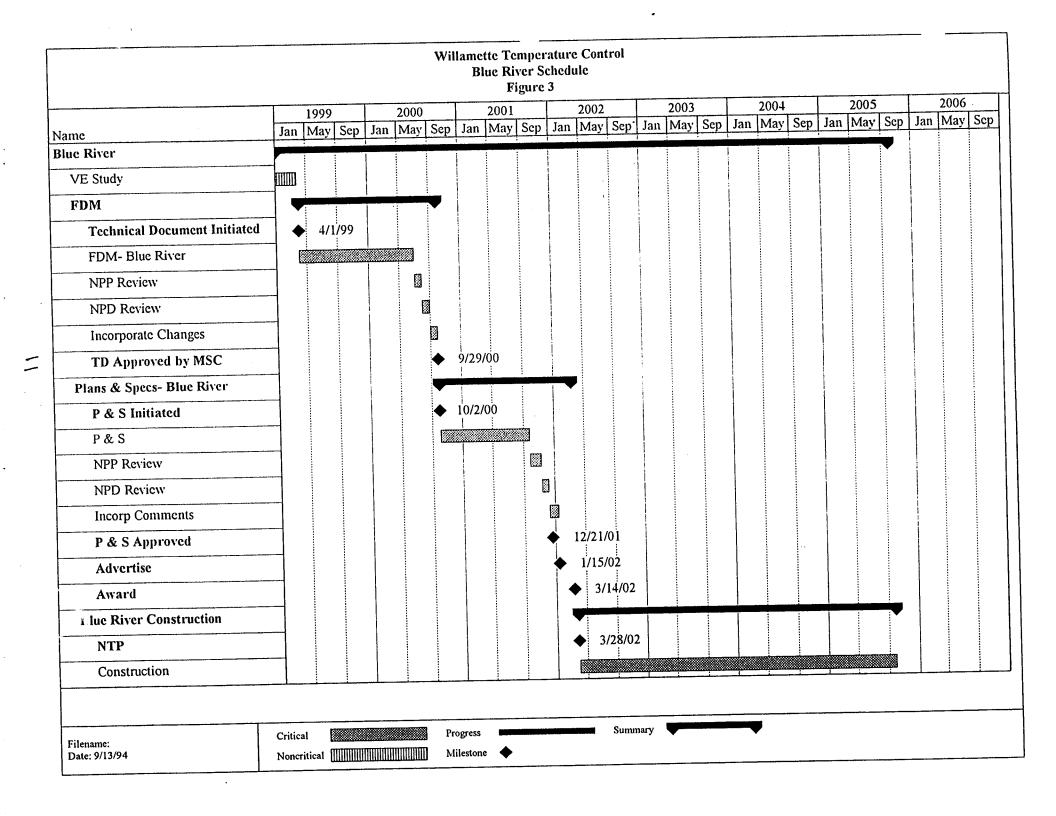
three indicator species used for the feasibility phase include the spring chinook salmon, bull trout, and resident rainbow trout. Due to the nature of the biological outputs, and the complexity of data involved in the estimate, an update of the benefits (biological outputs) is not planned.

Bull trout have been petitioned for listing under the Endangered Species Act (ESA). The USFWS ruled that although protection under ESA was warranted, it was precluded from listing due to work on higher priority species. The project is expected to benefit bull trout below the project in the long term. Coordination with the resource agencies, including USFWS, on bull trout protection during construction will continue throughout the project.

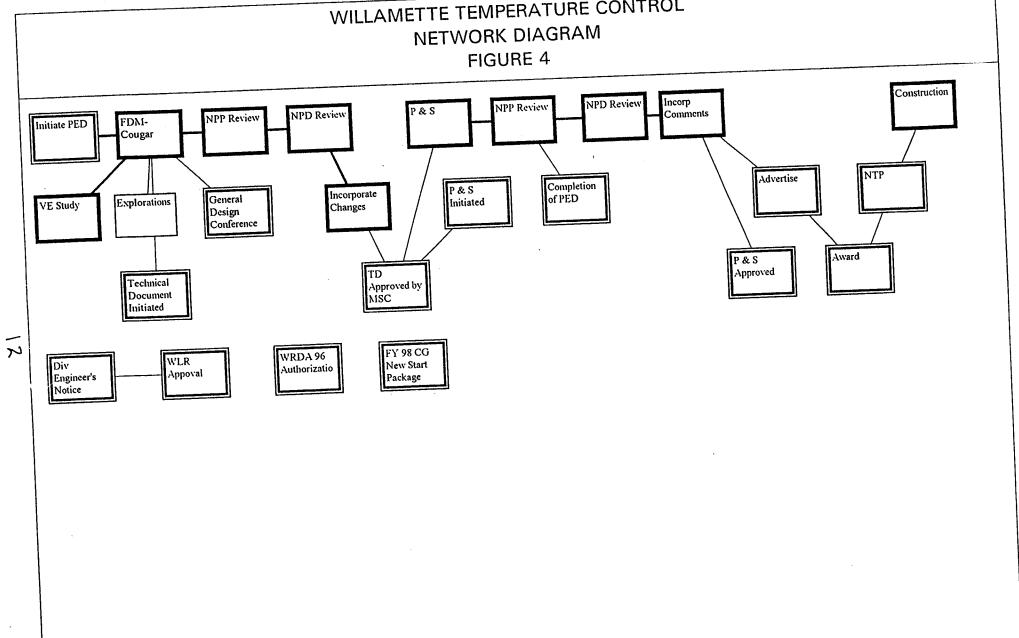
Resource		I	Slue Riv	er				Cougar							
Code	VE Studies	FDM	P&S	S&A	EDC	PM	Partnering	VE Studies	FDM	P&S	S&A	EDC	PM	Partnering	
PM						XXXX	XXXXX						XXXX	XXXXX	
PE-D															
PE-DS		XXXX	XXXX		XXXX				XXXX	XXXX		XXXX			
PE-DC															
PE-DE															
PE-DM															
PE-C															
PE-H													·		
PE-HD															
PE-HR															
PE-HY															
PE-PE															
PE-RPE															
PE-RRF															
PE-RR															
PE-T	-														
RE															
VE	XXXXXX							XXXXXXX							
co-s				XXXX							XXXX			_	
CO-FP															
CT															
OP-V															
AGEN															
USFS															
AE															

- 8. Resource Allocation Plan (RAP). Detailed work scopes have been prepared based upon current estimates of available personnel and anticipated workload. AE indefinite delivery contracts will be used to expedite the work effort due to the expected workload within the District. The RAP is provided on Figure 5. Functional managers have been involved in development of the work scopes to ensure that adequate resources will be made available.
- 9. Local Cooperation Plan. All lands required to construct and operate the project are in Federal ownership. Corps policy on this project, in response to the FY 1995 Appropriations Act Conference Report, does not require non-Federal cost sharing. The cost of the will be repaid based upon the allocation among the original project purposes. As stated in the Real Estate Plan, however, close coordination with the USFS will be required during the remaining design and construction phases since they administer projects lands outside the immediate construction area.





WILLAMETTE TEMPERATURE CONTROL NETWORK DIAGRAM FIGURE 4



**** TOTAL PROJECT COST SUMMARY **** TOTAL - ALL CONTRACTS

PAGE 1 OF 5

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT AS OF 1 AUG 94

P.O.C.: PATRICK T. JONES P.E., CHIEF, COST ENGINEERING BRANCH

	IHIS ESTIMATE O	ONTROL				DISTRICT.		IONES DE	CHIEF, COST ENG	INEERING	BRANCH
PROJECT:	WILLAMETTE RIVER TEMPERATURE C	ON THOL			-	P.O.C.: PA	TRICK I.				
	A A A A ID BI HE RIVER DAINS, ON					AUTHORIZ./BUI	DGET YEA	4R. 1990	*** FULLY FUND	ED ESTIM	ATE ***
	CURRENT MCACES ESTIMATE PICE AND	MATERICIANDS				EFFECT. PRICI			COST	CNTG	FULL
	EFFECTIVE PRICING LEVEL: 1 JUN 94			CNTG	TOTAL	COST	CNTG	TOTAL	(\$K)	(\$K)	(\$K)
		COST	CNTG	(%)	(\$K)	(\$K)	(\$K)	(\$K)	(\$14)		
ACCOUNT		(\$K)	(\$K)	(70)	(4.4)						
NUMBER						04 479	4.884	26,062	26,312	6,087	32,399
04	DAMS	20,995	4,842	23%	25,838	21,178	•	•	26,312	6,087	32,399
0403	OUTLET WORKS	•	4,842	23%	25,838	21,178	4,884	26,062			
	TOTAL CONSTRUCTION COSTS ===>	20,995	4,042							11	96
					0.4	74	10	84	85		_
	THE DAMACES	74	10	14%	84		686	7.018	7,287	791	8,078
01	LANDS AND DAMAGES	6,263	679	11%	6,942	6,332			4,088	496	4,584
30	PLANNING, ENGINEERING & DESIGN	•	389	12%	3,563	3,209	394		37,772	7,385	45,157
31	CONSTRUCTION MANAGEMENT	3,174			36,427	30,793	5,974	36,767		•	45,157
31	TOTAL PROJECT COSTS ======>	30,506	5,920	19%	30,421	1		TOTAL FEDERAL COSTS ====		:====>	,
	TOTAL PROJECT COOTS							TOTAL NON	N-FEDERAL COSTS	====>	0
								TOTALNO	NUM PROJECT COS	ST IS ==>	\$45,157
								THE MAXIN	NUM PROJECT CO		

THE MAXIMUM PROJECT COST IS ==> \$45,157

		DIVISION APPROVED:	
Dely Wag	PROJECT MANAGER CHIEF, COST ENGINEERING CHIEF, OPERATIONS CHIEF, PLANNING & ENGINEERING		CHIEF, COST ENGINEERING DIRECTOR, REAL ESTATE DIRECTOR, PPMD
	CHIEF, CONSTRUCTION DDE (PM)	APPROVED DATE:	
	CHIEF, REAL ESTATE CHIEF, RESOURCE MANAGEMENT DISTRICT COUNSEL		

	**** TO	TAI (CON	TRACT	COST SI	UMMAI	RY *	* * *			Р	AGE 2	OF 5
CONTRACT A - Cougar Dam THIS ESTIMAT PROJECT: Willamette Temperature Control Pro	E IS BASED O	N THE	SCOP	E CONTAI	NED IN THE	FEASIB	ILITY F	REPORT AS (TLAND < T. JONES I	OF 1 AUG 9	COST E	NGINEE	RING BF	ANCH
CURRENT MCACES ESTIMATE PR EFFECTIVE PRICING LEVEL: 1 JUI CCOUNT	EPARED: 22			, TOTAL (\$K)	AUTHOR	IZ./BUDO	ET YE LEVE NTG	AR: 1996 L:1 OCT 94				TIMATE	
NUMBER FEATURE DESCRIPTION 04 DAMS 0403 OUTLET WORKS, COUGAR DAM TOTAL CONSTRUCTION COSTS =	12,932 ==> 12,932	-,	22% 22%	15,817 15,817	1	13,045 13,045					15,276 15,276		18,684 18,684
01 LANDS AND DAMAGES 30 PLANNING, ENGINEERING & DES	40 SIGN 3385	6 362	15% 11%		1.1%		6 366 250	46 3,788 1,973	Jan-1997 Jan-1997 Jan-2000	8.1% 8.1% 20.2%		6 396 301	49 4,095 2,372
31 CONSTRUCTION MANAGEMENT TOTAL PROJECT COSTS ======	1704	3,500	14% 19%		1.1%			21,762			21,089	4,111	25,20

01 - - -

30 ---

31 - - -

LANDS AND DAMAGES

PLANNING, ENGINEERING & DESIGN

CONSTRUCTION MANAGEMENT

**** TOTAL CONTRACT COST SUMMARY **** THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT AS OF 1 AUG 94 CONTRACT B - Blue River Dam DISTRICT: PORTLAND P.O.C.: PATRICK T. JONES P.E., CHIEF, COST ENGINEERING BRANCH PROJECT: Willamette Temperature Control Project AUTHORIZ./BUDGET YEAR: 1996 LOCATION: Blue River Dam, Oregon *** FULLY FUNDED ESTIMATE *** CURRENT MCACES ESTIMATE PREPARED: 22 SEPT 94 EFFECT. PRICING LEVEL: 1 Oct 94 **FULL** COST CNTG **EFFECTIVE PRICING LEVEL: 1 JUN 94** FEATURE OMB COST CNTG TOTAL COST CNTG CNTG TOTAL OMB (\$K) (\$K) (\$K) (%) MID PT (\$K) (\$K) (\$K) CCOUNT (%) (%) (\$K) (\$K) (\$K) FEATURE DESCRIPTION NUMBER Nov-2004 35.7% 11,036 2,679 13,715 DAMS 8,133 1,974 10,107 04 - - -8,063 1,957 24% 10,021 0.9% OUTLET WORKS, BLUE RIVER DAM Nov-2004 35.7% 11,036 2,679 13,715 8,133 1,974 10,107 0403- -8,063 1,957 24% 10,021 0.9% TOTAL CONSTRUCTION COSTS ===> 47 5 Jan-2001 23.3% 42 38 4 34 1.1% 4 12% 38 3,983 395

3,195

1,612

317 11%

10%

142

2878

1470

TOTAL PROJECT COSTS ======> 12,445 2,420 19% 14,866

PAGE 3 OF 5

2,212

19,957

Jan-2001 23.3%

Nov-2004 35.7%

3,230

1,630

320

144

12,563 2,442 15,005

2,910

1,486

1.1%

1.1%

3,588

2,017

16,683 3,274

195

10. Acquisition Plan.

- a. <u>Engineering and Professional Services</u>. AE indefinite delivery contracts will be used during PED and design activities on Cougar and Blue River. Several delivery orders will be issued for various phases and locations of work as described in the work scopes in Appendix A. This is required to complete the work on a reasonable schedule due to other workload within the District.
- b. <u>Construction</u>. Due to the phased construction schedule at the two projects, the nature and type of construction work, the physical location of the projects, and the relatively small work area in the intake area, one construction contract at each site is the recommended plan for accomplishment of the work. The contractor at each site will be responsible for all construction and installation work, including supply of electrical and mechanical equipment. This will also allow for changes in the work at Blue River to be made as necessary based upon our experience at Cougar. The contracting method may be evaluated further during the PED phase in an attempt to reduce the length of construction.
- 11. Real Estate Plan. All the construction right-of-way requirements for the temperature control project at both Cougar and Blue River Lakes are located on Federally owned lands within the existing Corps project boundaries. All of the lands within the two project boundaries fall either under the administrative jurisdiction of the USFS or the Corps and the construction right-of-way requirements at both projects include lands under the jurisdiction of both agencies. That portion of the construction right-of-way required as actual sites for both modified intake structures, as well as the exit channel of the diversion tunnel at Cougar and the cofferdam at Blue River, are located on lands which fall within the administrative jurisdiction of the Corps.

Discussions initiated with the USFS during the feasibility phase of study will continue during FDM preparation. A real estate section will be included in each FDM which will outline all construction right-of-way requirements involved at the specific project locations. A Memorandum of Understanding (MOU) between the two Federal agencies will be developed for each project location (Blue River and Cougar) during the plans and specifications stages to outline specific responsibilities of each agency during construction. These MOU's will grant the Corps and their contractors permission to enter upon, occupy, and use those USFS lands within the project right-of-way requirement for the purpose of constructing the Willamette Temperature Control project. During the EDC phase, construction activities will be monitored with relationship to the negotiated MOU(s) and amendments will be developed as required.

12. <u>Total Quality Management Plan</u>. Design of the projects will be accomplished in accordance with Corps standards and regulations. Design reviews and value engineering studies are planned to ensure a quality product at the least cost. The construction contractor will be responsible for quality control, with Corps personnel on-site for quality assurance actions.

The resource agencies have provided input throughout earlier studies and the feasibility phase concerning temperature release goals and protection of fishery resources during construction. Their involvement is expected to continue through the design phase and their participation in a coordinating committee to discuss issues arising during the construction phase.

FIGURE 5 RESOURCE ALLOCATION PLAN

ID	Remaining Duration	Duration	Name	Cost	Early Start	Early Finish
2	4w	4w	VE Study	\$227,000.00	5/1/95	5/26/95
3	61w	61w	Feature Design Memorandum	\$1,121,000.00	5/1/95	6/30/96
4	13.2w	13.2w	Review	\$15,000.00	7/1/96	9/30/96
5	52.4w	52.4w	Plans & Specifications	\$909,000.00	9/30/96	9/30/97
6	. 13.2w	13.2w	Review	\$25,000.00	10/1/97	12/31/97
7	8.4w	8.4w	Advertise	\$10,000.00	1/1/98	2/28/98
8	4.4w	4.4w	Award	\$5,000.00	3/2/98	3/31/98
9	195.8w	195.8w	Construction	\$18,684,000.00	4/1/98	12/31/01
10				,, · · · · · · · · · · · · · · · ·		
12	4.6w	4.6w	VE Study	\$228,000.00	3/1/99	3/31/99
13	65.4w	65.4w	Feature Design Memorandum	\$935,000.00	4/1/99	7/1/00
14	13w	13w	Review	\$15,000.00	7/3/00	9/30/00
15	52w	52w \	Plans & Specifications	\$792,000.00	10/2/00	9/30/01
16	13.2w	13.2w	Review	\$25,000.00	10/1/01	12/31/01
17	8.6w	8.6w	Advertise	\$10,000.00	1/1/02	2/28/02
18	4.2w	4.2w	Award	\$5,000.00	3/1/02	3/31/02
19	187.2w	187.2w	Construction	\$13,715,000.00	4/1/02	10/31/05

13. <u>Value Engineering Plan</u>. The Water Resources Development Act of 1986, Section 911, requires a cost effectiveness review for any project costing in excess of \$10,000,000. It is also Corps policy to perform a cost effectiveness review on contracts in excess of \$2,000,000. The Value Engineering (VE) program will be utilized to assure that the project is designed in the most cost effective manner for the life of the project. The VE studies will be performed at the beginning of the feature design memorandum stage, when changes in the design will have less impact on the cost and schedule of the projects. The feasibility report will be used as the basis for the VE studies that will certify compliance with Section 911 requirements. Project features will be investigated to identify potential cost savings. Smaller scope VE actions directed at specific components of construction will be taken as appropriate.

The VE studies will be accomplished using a combination of technical experts from the Chief of Engineer's Value Engineering Study Team, Waterways Experiment Station, and Portland District. A separate scope of work for this effort has been prepared, and included in Appendix A. One of the focus items during the VE study, and throughout the design process, will be to reduce the overall construction schedule to limit temporary environmental and economic impacts and the cost of repeated contractor mobilizations.

The final area of VE efforts on this project will be the value engineering Change Proposal (VECP) process during construction. The contractor has the opportunity to make cost saving recommendations. If these recommendations are approved, the contractor will share a portion of the savings with the Government. The construction contractors will be encouraged to actively participate in the VE program. The Value Engineering Officer has made an estimate of anticipated costs to review and process these proposals during construction.

14. Safety Plan. Construction of the project will be in accordance with the Corps Safety Manual. Due to the nature of the construction, recreational use at the projects, and heavy use of roads (both pedestrian and vehicular traffic) near the project and construction areas, several specific concerns must be addressed. The construction contractor at each project will be required to submit a safety plan for approval. Traffic control will be required throughout the Cougar summer construction period. In addition, fencing will be required to keep people out of the construction area and to ensure public safety. Diving requirements during design and construction phases will be performed in accordance with standard Corps procedures.

Due to the limited amount of storage available during construction between the residual pool and the contractor's work area, a flood warning system will be installed during construction to warn the contractor of approaching high flows. The contractor will be required to submit a flood emergency plan for review and approval. This plan will outline the contractor's emergency procedures to evacuate the construction area in the event of heavy rainfall. The plan will include appropriate procedures for notification of the Corps in the event of an emergency evacuation.

Instrumentation will be monitored and evaluated throughout construction to ensure the stability and safety of the embankment dams. The Engineering During Construction scope of work contains the estimated cost to perform these actions.

15. <u>Security Plan</u>. This section is not applicable to this project. During reservoir drawdown, the construction area around the dam will be restricted by the contractor.

- 16. <u>Cultural Resource Plan</u>. There are several known cultural resource sites in the construction area. During feasibility, an inventory of sites and estimated cost to protect and secure the sites during construction was performed. The baseline cost estimate includes costs to monitor all sites, and protect and/or stabilize those sites that have the potential for eligibility on the National Register. The work will be coordinated with the State Historic Preservation Office, as well as other requirements of the National Historic Preservation Act. It is also possible that there may be additional sites below minimum flood control pool that were not evaluated during feasibility. This area below minimum pool will be evaluated for additional sites after initial drawdown at the beginning of construction. An appropriate level of contingency has been included in the cultural resources protection estimate.
- 17. Environmental Plan. The purpose of the project is to modify the temperature of water released from the projects to improve the downstream conditions for anadromous and resident fish. However, during construction there are number of temporary environmental impacts. Construction at the two projects has been phased to minimize impacts in the McKenzie Subbasin. Temporary construction impacts are discussed in the Environmental Impact Statement. The major items of concern are: potential turbidity increases resulting from draw down, construction activities, and yearly flood control operations, the potential for reduced flows during the summer season, when project outflows may be less that current minimum flows released from the projects; and reservoir habitat and fish losses during construction.

The reservoir draw down and construction plan was coordinated with the ODFW, USFWS, EWEB, and USFS. Continued coordination regarding measures to minimize the temporary adverse impact from construction on upstream bull tout may be necessary. We have met with the bull trout working group, comprised of resource agency representatives, a number of times to outline measures to reduce these construction impacts. The intake to the diversion tunnel at Cougar will be screened to keep bull trout in the residual pool.

Additional design and value engineering studies during the PED phase may alter these plans. The quantity and composition of sediments in the pool have been estimated based upon our experience at other projects, previous studies of the geology and geography of the upstream basin, and commercial use of the areas upstream of the projects. For the feasibility report, it was assumed that materials excavated for tower construction and water diversion can be deposited into the pool area. Sediment samples will be taken during the PED phase to refine estimates made in the feasibility phase.

Coordination with the resource agencies during construction will be accomplished through monthly meetings, or as determined necessary by involved parties, throughout the construction period. In addition to the fishery resource agencies, several agencies and organizations have asked to participate in this coordinating committee. These include ODFW, Oregon DEQ, USFS, McKenzie Watershed Council, U.S. EPA, Eugene Water and Electric Board, and Oregon Water Resources Department. Turbidity below the projects will be monitored during construction to determine if changes in the draw down scheme for the reservoirs or changes in the size of the residual pool maintained at Cougar and Blue River are required to reduce the impacts downstream.

The South Fork McKenzie River above and below the project is under consideration by the USFS for designation as a national wild and scenic river under the Wild and Scenic Rivers Act (WSRA). The mainstem of the McKenzie River is also being considered for designation by the Bureau of Land

Management. We have initiated coordination with USFS as required by Section 7 of WSRA, and have attempted to resolve their concerns regarding upstream bull trout impacts during construction. A final determination will be made following review of the final EIS.

18. Operation and Maintenance Plan. The project will continue to be operated by the Corps. As stated above, the projects will be operated for flood control during construction with a residual pool to limit downstream impacts from suspended sediment and turbidity. Based upon monitoring during construction, actual rainfall during the construction period, and ongoing coordination with the resource agencies, changes in the plan for operation during construction may be required to limit downstream impacts.

The Corps has minimum flow requirements at Albany and Salem that will most likely require releases during construction from other storage projects in the Willamette Basin. We have estimated the impacts for an average year based upon a model of the system. However, the actual impact and flows will be dependent upon weather patterns during construction. The minimum flow requirement at Albany and Salem has been reduced in the past during drought years through coordination with various state agencies. Coordination will occur with the appropriate state agencies on planned releases during the construction period.

Following construction, the projects will be operated to release water that more closely reflects preproject temperatures. It is anticipated that release temperatures will be modified after construction as experience with the system grows (similar to what occurred in the Rogue River basin). The effectiveness of the temperature control structures will be evaluated after construction. Temperature will be monitored for three years below Cougar and Blue River dams. Normal project operations will be maintained during this time.

In addition to the temperature measurements, fishery impacts will be evaluated for seven years following completion of construction at both projects. Adult returns at Leaburg are currently being monitored by EWEB. This data will be compared with pre project data to determine the increase in returns. Spawning ground surveys conducted by ODFW will be expanded, if necessary, to include upriver areas to determine the change in spawning distribution. Fry counts currently being done by ODFW under contract to EWEB will be used to determine changes in upriver fry emergence timing. The details of the monitoring program will be refined during future design stages. The cost of this program is estimated to be approximately \$420,000, and will be provided by Operations and Maintenance funding.

Operations and maintenance manuals and as-built drawings will be provided to the Willamette Valley project at the end of construction. In addition, post construction inspections will be performed to ensure that all deficiencies are corrected prior to final contract close-out and turnover of the project to operations personnel. Repair, replacement, rehabilitation requirements are outlined in the Engineering Technical Appendix B and C to the Feasibility Report.

19. <u>Management Control Plan</u>. The project manager will allocate funds to the technical managers for completion of products as outlined in this PMP and detailed scopes of work in accordance with ER 5-7-1. Technical managers are responsible for delivery of assigned products and to suballocate funds to team members in accordance with the scope of work. The technical manager can change the

distribution between team members without approval of the project manager as long as the scope or overall cost of the product are not changed.

The project manager will allocate funds yearly in the Budget Management System (BMS). Technical managers are responsible for sub allocations and detailed budgeting for their assigned products in BMS. Section and Branch Chiefs are responsible to provide the resources necessary to complete the products on time and within budget. Resourcing problems will be raised to the project manager at the earliest possible time. The project manager will update the master project schedule on a monthly basis with input from the technical managers. The technical managers are responsible for development and updating of detailed schedules necessary for the day to day management of their assigned product(s).

The project manager is the principle point of contact on the project with outside agencies and the public. Technical managers are expected to have discussions with their technical counterparts, but are expected to keep the project manager informed of all pertinent contacts.

The Corps will offer the construction contractors the opportunity to enter into a partnering agreement as outlined in the attached scope of work. The Administrative Contracting Officer (ACO), responsible for administration of the contract and on-site quality assurance, has authority to approve construction changes with cost impacts up to \$100,000. Each fiscal year, the project manager will allocate approximately five percent contingency to the ACO for these modifications. A change order review board (CORB) will be established to review all potential modifications to the contract. The members of the CORB will be the ACO, project manager, designated engineering representative, and project manager of the Willamette Valley project. The CORB will meet on a monthly basis during the construction period, or as determined necessary.

In addition, an MOU between the USFS and the Corps will be developed in the plans and specifications phase as discussed previously. This MOU will cover the responsibilities of the two agencies during the construction period. In addition, as discussed above, an interagency committee will be formed to discuss potential changes from the plans outlined in the PMP that may be needed during construction to minimize unforeseen environmental impacts.

20. Reporting Requirements. The project manager is responsible for preparation of all reports necessary for project budgeting (PB documents, 2101's, justification sheets, fact sheets, etc.) and reporting through the Project Review Board (PRB). The project manager is also responsible for initial input and progressing of the Open Plan project master schedule printed on a monthly basis for distribution to the District. Copies of pertinent information, including phone messages, will be provided to the appropriate technical manager.

As stated above, technical managers are responsible for initial input and monthly progressing of the detailed schedules necessary for the day to day management of their assigned products. Copies of all pertinent reports, memoranda, and summaries of discussions with outside agencies will be provided to the project manager. Correspondence with outside agencies and the public will be routed through the project manager for concurrence and to assure consistency. Meeting minutes will be prepared by the office that scheduled the meeting or person responsible for the majority of issues under discussion. Copies will be provided to appropriate members of the project team.

21. Change Control Plan. The project manager is responsible for approving, or elevating to the appropriate level defined in ER 5-7-1 for approval, all changes to the cost and schedule not discussed in Paragraph 19. The technical manager responsible for the change will notify the project manager and appropriate functional chiefs of a potential change at the earliest possible time. Following a review of potential actions to eliminate the impact, a Schedule and Cost Change Request (SACCR) will be submitted to the project manager by the technical manger responsible for preparation of the product. For changes within the authority of the construction engineer, a copy of the signed modification request will be provided to the project for contingency management purposes. All means practical to avoid schedule and cost impacts will be considered. The CORB will review and approve construction modifications as discussed in Paragraph 19.

The project manager is responsible for taking action on the SACCR and for management of contingencies as outlined in ER 5-7-1. Issues that cannot be resolved will be elevated to the appropriate functional chiefs for timely resolution by the project and/or technical manager. Once approved, the changes will be reflected in the BMS, Open Plan, and PRB reports.

BASI	ELINE S	SCOP	E OF	WOR	RK		
PROJECT: Cougar Te	mperature C	ontrol				DATE I	PREPARED: 8/29/94
SUBPRODUCT TITLE:				······································		SUBPR	ODUCT #/WBS ID
	sign Memor					1	CCCU
TECHNICAL MANAGER:					DY MAN	AGER:	OFFICE/OBS:
Karl Swanson SUBPRODUCT SUMMARY	NPP-PI		Doug Cl				NPP-PM
- PMP Worksheet (summary, - Specific product outline (plate) - Individual office Budget and	ates, text, dr	awings,		tions)			
UPWARD REPORTED MILESTONES DA		INTER MILES	NAL STONES		DATE	% COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
	FY95	FY96	FY97	FY98	FY99	TOTAL	
CONSTRUCTION COST							
					NGENCY	,	
	0.00	0.65	TOTAL	CONST	R. COST	L	
BASELINE ALLOCATION *	0.35 414	0.65 76 7				1183	
DASELINE ALLUCATION *		1437		CONTI	NGENC	128	
			TOTA	L ESTIN		1311	
Submitted:	1		Approv				
(Technical Manager)	(Da	_ ite)		(Projec	:t\Study N	(Ianager)	(Date)

^{*} Allocation does not include Contingency, and is the approved budget amount.

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study
LEAD: CENTRIPE DS Swanson

TASK: Cougar FDM

, and the second	Office	Org			COSTS			
Organization	Symbol	Code	Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$30,804	\$200	\$250	\$42,570	\$7,382	\$81,207
Design Branch	PE-D	DB	\$10,639	\$0	\$0	\$0	\$1,064	\$11,703
Civil/Land. Design	PE-DC	DC	\$47,070	\$300	\$4,080	\$10,000	\$12,290	\$73,740
Electrical Design	PE-DE	DD	\$16,564	\$250	\$3,100	\$0	\$3,983	\$23,896
Mechanical Design	PE-DM	DF	\$30,037	\$75	\$6,600	\$0	\$3,671	\$40,383
Struct/Arch Des.	PE-DS	DG	\$88,502	\$400	\$26,800	\$225,496	\$34,120	\$375,317
H & H Branch	PE-H	DK	\$11,093	\$O	\$0	\$0	\$1,109	\$12,203
Hydraul. Design	PE-HD	DL	\$113,970	\$1,175	\$4,900	\$30,000	\$7,502	\$157,547
Res. Regulation	PE-HR	DR	\$15,341	\$0	\$0	\$61,184	\$15,305	\$91,830
Hydrology	PE-HY	DN	\$82,565	\$450	\$900	\$O	\$8,392	\$92,307
Geotech Branch	PE-G	CJ	\$158,469	\$1,388	\$7,610	\$38,075	\$20,554	\$226,096
Economics	PE-PE	ED	\$16,930	\$0	\$0	\$O	\$1,693	\$18,623
Fish & Wldlf	PE-RR	EN	\$18,474	\$875	\$ 0	\$O	\$1,935	\$21,283
Environmental	PE-RP	EM	\$5,997	\$O	\$0	\$O	\$2,999	\$8,996
Tech. Branch	PE-T		\$49,289	\$O	\$0	\$O	\$4,929	\$54,218
Project	OP-V	JB	\$1,500	\$O	\$0	\$O	\$0	\$1,500
Real Estate	RE-AP	ΒŲ	\$8,947	\$100	\$55	\$O	\$910	\$10,012
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Contract Procuremen	CT-P	ND	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Construction	CO-SC	FE	\$1,750	\$0	\$0	\$0	\$O	\$1,750
TOTALS			\$715,941	\$5,213	\$54,295	\$407,325	S127(888	\$1,310,611

COUGAR FDM SCOPE OF WORK

PLATES

C2 D0 C3 D0 C4 D2 C5 D2 C6 D2 C7 G C8 G0	C Site Map C Contractor Operations C Construction Sequence Diversion Tunnel Demolition - Plan and Section Demolition - Upstream Elevation Tunnel Chamber Excavation Excavation Plan Excavation and Treatment Sections I
	Excavation and Treatment Sections II
	Upstream Elevation
C12 DS	S Longitudinal Section
	S Transverse Section
	S Plan
	S Sections I
	S Sections II S Details
	S R O Trashrack
	F Penstock Trashrack
	S Wetwell Trashrack
C21 DS	Floating Trashracks I
	S Floating Trashracks II
	I Equipment Plan
	Temperature Control Gate
	Bypass Gate
	I Low Level Outlet Gate I Fuse Panel
) Instrumentation
	Electrical Site Plan
	One Line Diagram

COUGAR FDM SCOPE OF WORK continued...

TEXT SECTIONS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	DS DC G HHD DS DE DS C PE RE	Introduction Existing Project Features Proposed Features Civil and HTRW Geotechnical Hydrology Hydraulic Instrumentation Structural Mechanical Electrical Construction (C, DC) Operation and Maintenence Cost Estimate Economics Real Estate Coordination and Correspondance
	DS	

	26-Aug-94						
	PROJECT:	WILLAMETTE	RIVER TEMPER	RATUR	CONTR	OL FEASIBILI	TY STUDY
	TASK:	Cougar FDM				ORG CODE	
	OFFICE:	Cost Engineer	ng Branch			CE	
	DIRECT CHARGES:						
l	1) a. Labor			Amoun		Staff Average	·
ļ		Branch Chief	14	0	Hours	\$53	\$0
		Branch Chief	13		Hours	\$48	\$2,688
l		Cost Engineer	12		Hours	\$42	\$13,440
		Cost Engineer	11	0_	Hours	\$36	\$0
		Technician	7/ 9	0	Hours	\$30	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0_	Hours	\$O	\$0
j	Subtotal In-House D	irect Labor					\$16,128
	2) Tech Indirect (E	st Rate:)			64.0%		\$10,322
	General Admin (27.0%		\$4,355
	TOTAL LABOR CHA	RGES					\$30,804
	TRAVEL:						
	4) Travel & Transpo	ortation	777 <u>12</u>				
			Per Deim	2	# Days	\$75	\$150
			Govt Vehicle	200	# Miles	\$0.25	\$50
			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$200
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses						
			CADD		#Hours	\$35	\$0
			Materials		LS		\$50
No de Salado			Reproduction		LS		\$200
	SUBTOTAL OTHER I						\$250
	CONTRACTS & OTH						
	8) A/E Contract Pa	•		Amou		Staff Averag	
	a. Labor	Principal		-	Hours	\$80	\$3,200
	•	Project Manag		-	Hours	\$72	\$0
		Senior Cost Er	igineer		Hours	\$65	\$18,200
		Cost Engineer			Hours	\$53	\$13,780
		Junior Cost En	=	-	Hours	\$36	\$0
		Engineering Te	ech		Hours	\$31	\$1,240
		Secretary		40	Hours	\$27	\$1,080
		labor subtotal					\$37,500
	b. Materials				LS		\$200
	c. Transportation	on		,	LS		\$1,000
	d. Profit			ł	10.0%		\$3,870
	9) Other Corps Par						
		nent Payments		Sandara Galago			
	SUBTOTAL CONTRA	ACTS & OTHER	COE			<u></u>	\$42,570
	SUMMARY						
	11) Total Estimated						\$73,824
	12) Contingency, A	Account 30.A.A	١.		10%		\$7,382
	13) TOTAL FOR						\$81,207

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK Cougar FDM Cost Engineering Branch OFFICE: **HOURS DIRECT LABOR ACTIVITY** 14 13 12 11 9 5/6 other General Design Conference 8 8 8 16 Review 24 8 Coordination 24 8 Team meetings 4 40 A/E D.O. prepare/estimate/negotiate 4 40 A/E D.O. coordinate/review 80 **MCACES** 16 16 Site visit 16 Spreadsheets & FDM Text 16 Finalize Costs & Documentation 40 Alternative Cost Support 0 56 320 0 0 0 0 HOURS Prin. PM Sr CE CE Jr CE Tech A/E LABOR ACTIVITY Secre 8 Management 8 Review 8 Coordination 8 8 Team meetings 8 8 Background/Scope of Work Review Design & Check Quantities 24 24 40 40 Provide Constructibility Review Comments to TM Constructibility/Retrofit considerations 8 16 16 Construction Methods 8 **Bid Schedule** 8 LaborCosts, Data Base Update 8 **Equipment Costs Updates** 16 16 Crews **MCACES** 120 100 Write Detailed'Construction Narratives 24 24 16 Construction Schedule Input and Review 8 16 16 16 Site visit 40 40 40 0 280 260 0 A/E LABOR TOTALS

REMA	RKS	
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- 1 A/E delivery order under \$150K

	BUDGET WORKS	HEET					26-Aug-94
	PROJECT:	WILLAMETTE R	IVER TEMPE	RATURI	E CONTRO	L FEASIBILIT	Y STUDY
	TASK:	Cougar FDM				ORG CODE	
	OFFICE:	Design Branch				DB	
	DIRECT CHARGES:						
	1) a. Labor			Amoun	t S	Staff Average	\$ Amount
		Branch Chief	14	96	Hours	\$52	\$4,992
		Section Chief	13	0	Hours	\$44	\$0
		Architect/Engine	er 12	0	Hours	\$37	\$0
		Architect/Engine	er 11	0	Hours	\$34	\$0
		Technician	7/ 9	0	Hours	\$26	\$0
		Secretary	5/6	34	Hours	\$17	\$578
		other		0	Hours	\$12	\$0
	Subtotal In-House D	irect Labor					\$5,570
	2) Tech Indirect (E	st Rate:)			64.0%		\$3,565
	3) General Admin (Est Rate:)		į	27.0%		\$1,504
	TOTAL LABOR CHA						\$10,639
	TRAVEL:						
	4) Travel & Transpo	rtation					
	Traver & Transpe	n tation	Per Deim		# Days	\$75	\$0
		G	ovt Vehicle		# Miles	\$0.25	\$0
	ļ	J	Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
			Auto Nentai		# 11111C3	 433	<u> </u>
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
*******	5) Graphics						\$0
	6) Misc Expenses	•					<u></u>
	'		CADD	0	#Hours	\$35	\$0
			Materials		LS		\$0
		R	eproduction		LS		\$0
	SUBTOTAL OTHER I						\$0
							90
	CONTRACTS & OTH	IER COE:					30
	CONTRACTS & OTH 8) / E Contract Pa			Amou	nt S	Staff Average	
	8) / E Contract Pa	ayments		Amou		Staff Average	\$ Amount
	8) / E Contract Pa	ayments Principal		0	Hours	\$0	\$ Amount \$0
	8) / E Contract Pa	ayments	/Engineer	0			\$ Amount
	8) / E Contract Pa	ayments Principal Supervisor	•	0 0 0	Hours Hours	\$0 \$0	\$ Amount \$0 \$0
	8) / E Contract Pa	ayments Principal Supervisor Senior Architect	er	0 0 0	Hours Hours Hours	\$0 \$0 \$0	\$ Amount \$0 \$0 \$0
	8) / E Contract Pa	ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra	er	0 0 0 0	Hours Hours Hours Hours	\$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0
	8) / E Contract Pa	ayments Principal Supervisor Senior Architect Architect/Engine	er	0 0 0 0 0	Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	8) / E Contract Pa	ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary	er	0 0 0 0 0	Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	8) / E Contract Pa	ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other	er	0 0 0 0 0	Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials	Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	er	0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor	Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	er	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials c. Transportation	Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	eer fter/CADD	0 0 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa	ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	eer fter/CADD 1's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa	Ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 2544 ment Payments (eg.	eer fter/CADD 1's) eg. 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr SUBTOTAL CONTRA	Ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 2544 ment Payments (eg.	eer fter/CADD 1's) eg. 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Par 10) Other Governr SUBTOTAL CONTRA	Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 2544 ment Payments (eg. 2544 ACTS & OTHER C	eer fter/CADD 1's) eg. 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Par 10) Other Governr SUBTOTAL CONTRA SUMMARY 11) Total Estimated	Ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 2544 ment Payments (eg.	eer fter/CADD 1's) eg. 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	BUDGET WORKS	SHEET				26-Aug-94
	PROJECT:	WILLAMETTE R	IVER TEMPER	RATURE CONT	ROL FEASIBILI	TY STUDY
	TASK:	Cougar FDM			ORG CODE	
	OFFICE:	Civil and Enviro	nmental Desig	<u>jn</u>	DC	
	DIRECT CHARGES:					
	1) a. Labor			Amount	Staff Average	
		Branch Chief	14	0 Hours	\$52	\$ 0
		Section Chief	13	72 Hours	\$44	\$3,168
		Architect/Engine		488 Hours	\$37	\$18,056
		Architect/Engine	eer 11	0 Hours	\$34	\$0
		Technician	7/ 9	108 Hours	\$26	\$2,808
	}	Secretary	5/6	36 Hours	\$17	\$612
		other		0 Hours	\$12	\$0
	Subtotal In-House D				_	\$24,644
	2) Tech Indirect (E			64.0%		\$15,772
	General Admin (27.0%	<u> </u>	\$6,654
	TOTAL LABOR CHA	RGES				\$47,070
	TRAVEL:					
	4) Travel & Transpo	ortation				
			Per Deim	# Days	\$75	\$ 0
		G	ovt Vehicle	1200 # Miles	\$0.25	\$300
			Flight	#Trips	\$250	\$ 0
			Auto Rental	#Times	\$35	\$ 0
West of the last o						
	SUBTOTAL TRAVEL					\$300
	OTHER EXPENSES:					1
	5) Graphics					\$0
	6) Misc Expenses		CARR	100 411	025	40.700
			CADD	108 #Hours	\$35	\$3,780
			Materials	LS		\$300 \$0
*******	SUBTOTAL OTHER		eproduction	LS		\$4,080
						1 34,000
	CONTRACTS & OTH				Ctoff Assessed	A A
	8) A/E Contract Pa			Amount	Staff Average	\$ Amount \$0
	a. Labor	Principal		0 Hours		
	,	Supervisor	·/=-:	0 Hours	\$0 \$0	\$0 \$0
		Senior Architect	_	0 Hours	\$0	\$0
		Architect/Engine Technician / Dra		0 Hours	\$0	\$0
			inter/CADD	0 Hours	\$0	\$0
		Secretary other		0 Hours	\$0	\$0
		labor subtotal		O Hours	\$0	\$0
	b. Materials	labor subtotal		LS		\$0
		nn		LS		\$0
	<u> </u>	ווט		10.0%	ר	\$0
		s Purchase Orde	er for Remote			\$10,000
Į	1	ment Payments (Jildoi Water V	Juniora	7.0,000
	SUBTOTAL CONTRA					\$10,000
	SUMMARY					
		d Cost for Accou	nt 30 A			\$61,450
	1 -	a cost for Accou Account 30.A.A.	iit 00.A.	20%	7	\$12,290
	13) TOTAL FOI			1 20 /0	1	\$73,740
		a Chille Carrier	gyagy, (gyago day), gyalaji ili iki iki ili ili ili ili ili ili il	a 4400 a a a a a a a contato di Palabilitation del Palabilitati		

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Cougar FDM OFFICE: Civil and Environmental Design HOURS **DIRECT LABOR ACTIVITY** 14 13 12 11 9 5/6 other General Design Conference 16 Coordination Meetings 4 12 Contractor Operations Plate 40 -Access Roads 24 2 -Clearing, Surfacing 12 24 -Contactor Work Areas 2 -Contractor Staging Areas 24 2 **Environmental Protection Inputs** -Sediment Abatement Plan for Site Work 24 2 -Erosion Control Plan for Site Work 24 2 -Solid Waste Disposal 24 2 -Haz Waste Disposal 24 2 Construction Sequence Plate 40 -Drawdown 24 4 2 -Diversion 4 24 2 -Initial Season's Work 4 24 2 -Winter Pool Preparation 4 24 2 -Summer Cleanup 4 24 2 HTRW -Review of Past Construction Activities 24 2 -Develop Anticipated Drawdown Findings 24 -Define Cleanup Requirements 24 2 Bank Protection -Agency Coordination 24 2 -Development of Plan 24 -Layout, design and drawings 24 2 24 S&A for Remote Camera PO Contract 40 Coordination for Remote Camera PO Contract 72 488 36 0 0 0 108 HOURS Prin. |Supr. |Sr AE| T/D A/E LABOR ACTIVITY ΑE Sec. other 0 0 0 0 0 A/E LABOR TOTALS 0 0 REMARKS -includes civil, HTRW, and construction text

CFDM.XLW

-includes quantity estimates and site visits

BUDGET WORKS	SHEET					26-Aug-94
PROJECT:	WILLAMETTE	RIVER TEMPER	RATURI	CONTRO	L FEASIBILIT	Y STUDY
TASK:	Cougar FDM				ORG CODE	
OFFICE:	Electrical Desig	ın.			DD	
DIRECT CHARGES:						
1) a. Labor			Amoun	t	Staff Average	\$ Amount
	Branch Chief	14	0	Hours	\$52	\$0
	Section Chief	13	12	Hours	\$44	\$528
	Architect/Engir	neer 12	72	Hours	\$37	\$2,664
	Architect/Engir			Hours	\$34	\$3,128
	Technician	7/ 9		Hours	\$26	\$2,080
	Secretary	5/6		Hours	\$17	\$272
	other	3 , 3	0	Hours	\$12	\$0
Subtotal In-House D						\$8,672
2) Tech Indirect (1	64.0%		\$5,550
3) General Admin				27.0%		\$2,341
 TOTAL LABOR CHA				27.070		\$16,564
	MGLO					
TRAVEL:	4-41					
4) Travel & Transpo	ortation	Dan Daine		l# Davis	\$75	\$150
	,	Per Deim		# Days # Miles	\$0.25	\$150
	•	Govt Vehicle	400			
		Flight	<u> </u>	#Trips	\$250	\$0
		Auto Rental	L	#Times	\$35	\$O
SUBTOTAL TRAVEL						\$250
OTHER EXPENSES:						
5) Graphics						\$100
6) Misc Expenses						1,100
O, Wilde Experides		CADD	80	#Hours	\$35	\$2,800
		Materials		LS		\$100
		Reproduction		LS		\$100
SUBTOTAL OTHER						\$3,100
CONTRACTS & OTH						
8) A/E Contract P			Amou	nt :	Staff Average	\$ Amount
a. Labor	Principal		0	Hours	\$0	\$0
a. Labor	Supervisor		0	Hours	\$0	\$0
, ·	Senior Archited	rt/Engineer	0	Hours	\$0	\$0
	Architect/Engir	-	0	Hours	\$0	\$0
	Technician / D		0	Hours	\$0	\$0
	Secretary	iaitei/CADD	 0	Hours	\$0	\$0
	other		0	Hours	\$0	\$0
				riouis	40	\$0
h Massaviala	labor subtotal			LS		\$0
b. Materials				LS		\$0
c. Transportati	On			10.0%		\$0
d. Profit 9) Other Corps Pa	yments (eg. 25	44'e)		10.070		
•	ment Payments					
SUBTOTAL CONTR						\$0
SUMMARY	7.00					
	d Cost for Acco	unt 30.A.				\$19,914
1	Account 30.A.A			20%		\$3,983
13) TOTAL FO						\$23,896

	TASK WORKSHEET								
	PROJECT: WILLAMI	TTE RIVER TEM	PERATI	JRE CO	NTRO	FEAS	IBILITY	STUC	Y
	TASK: Cougar F								
20232323	OFFICE: Electrical	Design							
	DIDECT LABOR ACTIVITY			40	_	HOURS		F /0	1
	DIRECT LABOR ACTIVITY Review		14	13	12 16	11 4	9	5/6	other
	Coordination Meetings			4	6	12		2	
	General Design Conference			7	8	12			
			<u> </u>						
	Site Visits				8	16			
	Review Previous Documents				2	4			
	Load Analysis				2	8			
	Main Feeder Design				2	4			
	Prepare Plates (2)			2	4	12	80		
	Prepare Text			2	12	24		12	
	Estimate Quantities				4	8			
	Coordination with OP-V				8			2	
									ereinenis sa ist
			0	12	72	92	80	16	0
dioesidesi									
	A /5 A DOD A OT!\		Dailer 1	C		HOURS		Coo	- 4
	A/E LABOR ACTIVITY		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
					·				
									- i
	A/E LABOR TOTALS		0	0	0	0	0	0	0
			200000000000000000000000000000000000000						Sections
	REMARKS								
	ILLAIMING								

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BUDGET V	VORKSHEET				26-Aug-94
PROJECT:	WILLAMETTE	RIVER TEMPE	RATURE CONTR	OL FEASIBILIT	Y STUDY
TASK:	Cougar FDM			ORG CODE	
 OFFICE:	Mechanical D	esign		DF	
DIRECT CHA	ARGES:				
1) a. Labor			Amount	Staff Average	
	Branch Chief	14	0 Hours	\$52	\$0
	Section Chief		29 Hours	\$44	\$1,276
	Architect/Eng		0 Hours	\$37	\$0
	Architect/Eng		418 Hours	\$34	\$14,212
1	Technician	7/ 9	0 Hours	\$26	\$0
	Secretary	5/6	14 Hours	\$17	\$238
	other		0 Hours	\$12	\$0
Subtotal In-H	louse Direct Labor				\$15,726
2) Tech In	direct (Est Rate:)		64.0%		\$10,065
3) General	Admin (Est Rate:)		27.0%		\$4,246
TOTAL LABO	OR CHARGES				\$30,037
TRAVEL:					
4) Travel &	Transportation				
		Per Deim	# Days	\$75	\$0
		Govt Vehicle	300 # Miles	\$0.25	\$75
1		Flight	#Trips	\$250	\$0
		Auto Rental	#Times	\$35	\$O
SUBTOTAL '	TRAVEL				\$75
OTHER EXP	ENSES:				
OTHER EXT.					
5) Graphics					\$0
	5				
5) Graphics	5	CADD	160 #Hours	\$35	\$5,600
5) Graphics	5	Materials	LS	\$35	\$5,600 \$500
5) Graphics 6) Misc Ex	s penses			\$35	\$5,600 \$500 \$500
5) Graphics 6) Misc Ex SUBTOTAL	s openses OTHER EXPENSES	Materials	LS	\$35	\$5,600 \$500
5) Graphics 6) Misc Ex SUBTOTAL	s penses	Materials	LS		\$5,600 \$500 \$500 \$6,600
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS	orpenses OTHER EXPENSES S & OTHER COE: Intract Payments	Materials	LS LS Amount	Staff Average	\$5,600 \$500 \$500 \$6,600
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal	Materials	LS LS Amount O Hours	Staff Average	\$5,600 \$500 \$500 \$6,600 \$6,600 \$0
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor	Materials Reproduction	LS LS Amount O Hours O Hours	Staff Average	\$5,600 \$500 \$500 \$6,600 \$ \$ Amount \$ 0 \$ 0
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite	Materials Reproduction	Amount O Hours O Hours Hours	Staff Average \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$6,600 \$6,600 \$0 \$0 \$0
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite Architect/Eng	Materials Reproduction ect/Engineer gineer	Amount O Hours O Hours O Hours O Hours Hours	Staff Average \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$6,600 \$6,600 \$0 \$0 \$0 \$0
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col	OTHER EXPENSES S & OTHER COE: ntract Payments or Principal Supervisor Senior Archite Architect/Eng Technician /	Materials Reproduction	Amount O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary	Materials Reproduction ect/Engineer gineer	Amount O Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$6,600 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Coi a. Labo	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Col a. Labo	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours Hours O Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Coi a. Labo b. Mate c. Tran	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtotal erials sportation	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Con a. Labor b. Mate c. Tran d. Profi	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtotal erials sportation t	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours Hours O Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Con a. Labo b. Mate c. Tran d. Profi 9) Other C	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota erials sportation t Corps Payments (eg. 2	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Contracts a. Labo b. Mate c. Tran d. Profi 9) Other Contracts	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota erials sportation t Corps Payments (eg. 2 Government Payment	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Contracts a. Labor b. Mate c. Tran d. Profi 9) Other Contracts 10) Other SUBTOTAL	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota erials sportation t Corps Payments (eg. 2	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Contracts a. Labo b. Mate c. Tran d. Profi 9) Other Contracts 10) Other SUBTOTAL SUMMARY	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota erials sportation t Corps Payments (eg. 2 Government Payment CONTRACTS & OTHE	Materials Reproduction ect/Engineer gineer Drafter/CADD	Amount O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACT: 8) A/E Contract: a. Labo b. Mate c. Tran d. Profi 9) Other Contract: SUBTOTAL SUMMARY 11) Total E	OTHER EXPENSES S & OTHER COE: Intract Payments In Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota erials sportation t Corps Payments (eg. 2 Government Payment CONTRACTS & OTHE	Materials Reproduction ect/Engineer gineer Drafter/CADD I 544's) s (eg. 1144's) R COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS 10.0%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5) Graphics 6) Misc Ex SUBTOTAL CONTRACTS 8) A/E Contracts a. Labo b. Mate c. Tran d. Profi 9) Other 10) Other SUBTOTAL SUMMARY 11) Total E 12) Contin	OTHER EXPENSES S & OTHER COE: ntract Payments r Principal Supervisor Senior Archite Architect/Eng Technician / I Secretary other labor subtota erials sportation t Corps Payments (eg. 2 Government Payment CONTRACTS & OTHE	Materials Reproduction ect/Engineer gineer Drafter/CADD I 544's) s (eg. 1144's) R COE	Amount O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,600 \$500 \$500 \$500 \$500 \$6,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEN	IPERAT	URE CC	NTRO	FEAS	BILIT	/ STUC	ìΥ
	TASK: Cougar FDM							
	OFFICE: Mechanical Design	1			HOURS	<u> </u>		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
200200000	design gates, operators, security covers		'		24		2	Cinci
	write Mechanical section				34		8	
	5 FDM plates		5		200			
	coordination/meetings		6		8		2	
	site visit				8			
	review		16					
	fuse design		2		96		ļ	
	quantities				8			
	diversion/low level outlet gates				24	ļ	2	
	O&M requirements				8			
ļ	General Design Conference				8			
<u> </u>		+						
		500500000000	\$00000000000000000000000000000000000000			000.000.000		50,000,000,000
		0	29	0	418	0	14	0
88888888					HOURS			
	A/E LABOR-ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/E LABOR ACTIVITY	Filli.	Supi.	SI AL	AL	1/0	Sec.	outer
								
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	A STATE OF THE STA						<u> </u>	
***************************************		0.0000000000000000000000000000000000000	000000000000000000000000000000000000000	2010-2000-200 (COO)		100000000000000000000000000000000000000		occiomococo.
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS							
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								1
	CEDW	XIW.						

	BUDGET WORKS	HEET					9-Nov-94
	PROJECT:	WILLAMETTE RI	VER TEMPER	ATURE	CONTRO)L FEASIBIL	JITY STUDY
	TASK:	Cougar FDM				ORG CODE	
	OFFICE:	Structural and A	achitectural C	esign)		DG	
	DIRECT CHARGES:						
	1) a. Labor			Amount		Staff Avera	ge \$ Amount
		Branch Chief	14		Hours	\$52	\$0
		Section Chief	13	144	Hours	\$44	\$6,336
		Architect/Engine	er 12	792 I	Hours	\$37	\$29,304
		Architect/Engine	er 11	204	Hours	\$34	\$6,936
		Technician	7/ 9	108 I	Hours	\$26	\$2,808
		Secretary	5/6	56 I	Hours	\$17	\$952
		other		0 1	Hours	\$12	\$ 0
	Subtotal In-House D	irect Labor					\$46,336
	2) Tech Indirect (E	st Rate:)		F	64.0%		\$29,655
	3) General Admin (T:	27.0%		\$12,511
	TOTAL LABOR CHA						\$88,502
	TRAVEL:						
	4) Travel & Transpo	ortation					
			Per Deim	4	# Days	\$75	\$300
		G	ovt Vehicle	-	# Miles	\$0.25	\$100
		•	Flight		#Trips	\$250	\$O
			Auto Rental		#Times	\$35	\$0
				'			
	SUBTOTAL TRAVEL						\$400
	OTHER EXPENSES:						
	5) Graphics						\$9,000
	6) Misc Expenses						
	'		CADD	80	#Hours	\$35	\$2,800
			Materials		LS		\$5,000
		R	eproduction		LS		\$10,000
	SUBTOTAL OTHER	EXPENSES					\$26,800
	CONTRACTS & OTH	IER COE:					
esecotion.	8) A/E Contract P			Amour	nt	Staff Avera	ige \$ Amount
	a. Labor	Principal		4	Hours	\$115	\$460
l		Supervisor		128	Hours	\$100	\$12,800
	·	Senior Architect	t/Engineer	888	Hours	\$85	\$75,480
		Architect/Engine	-	1132	Hours	\$61	\$69,052
		Technician / Dra		640	Hours	\$66	\$42,240
		Secretary		16	Hours	\$29	\$464
		other		0	Hours	\$O	\$O
		labor subtotal			,		\$200,496
1	b. Materials				LS		\$2,500
	c. Transportati	on			LS		\$2,000
	d. Profit			ſ	10.0%		\$20,500
	B .	yments (eg. 254	4's)	•			
		ment Payments (
	SUBTOTAL CONTR						\$225,496
الناسي							
	SUMMARY	d Cost for Accou	ınt 30.A.				\$341,197
	SUMMARY 11) Total Estimate	d Cost for Accou			10%		\$341,197 \$34,120

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Cougar FDM OFFICE: Structural and Architectural Design HOURS DIRECT LABOR ACTIVITY 5/6 other General Design Conference review coordination meetings A/E D.O. prepare/estimate/negotiate A/E D.O. coordinate/review agency corespondance/presentations site visits VE changes write FDM text sections schedules. **HOURS** A/E LABOR ACTIVITY Prin. Supr. Sr AE AE T/D Sec. other management review coordination meetings background/previous documents develop design criteria alternative investigation preliminary design and layout detailed design and analysis steel design details seismic FEM-analysis write structural section text prepare 16 CADD plates calculate quantities site visit study existing rebar splices under seismic loads A/E LABOR TOTALS

REMARKS

-2 A/E delivery orders under \$150K will be used

_	BU	DGET WORKS	HEET					26-Aug-94
	PRO	DJECT:	WILLAMETTE R	IVER TEMPE	RATUR	E CONTR	OL FEASIBILIT	Y STUDY
	TAS	SK:	Cougar FDM				ORG CODE	
	**********	FICE:	H & H Branch				DK	
	1111111111111111	RECT CHARGES:						
	1) a	a. Labor			Amour	•	Staff Average	
			Branch Chief	14		Hours	\$52	\$4,992
			Section Chief	13	0	Hours	\$44	\$O
			Architect/Engine		0	Hours	\$37	\$O
			Architect/Engine		0	Hours	\$34	\$0
	l		Technician	7/ 9	0	Hours	\$26	\$0
			Secretary	5/6	48	Hours	\$17	\$816
	l		other		0	Hours	\$12	\$O
		ototal In-House Di				C		\$5,808
	2)	Tech Indirect (E	•			64.0%		\$3,717
	3)	General Admin (27.0%		\$1,568
	TO	TAL LABOR CHAI	RGES					\$11,093
	TR/	AVEL:						
	4)	Travel & Transpo	rtation					
				Per Deim		# Days	\$75	\$O
			G	ovt Vehicle	L	# Miles	\$0.25	\$O
	ĺ			Flight		#Trips	\$250	\$O
				Auto Rental		#Times	\$35	\$ 0
	. 4. 42 42 4							
	SAME AND ASSESSMENT	BTOTAL TRAVEL						\$0
	3.034.000	HER EXPENSES:				_		T
	5)	Graphics						\$0
	6)							
		Misc Expenses		CARR		1411	L AGE	
		Misc Expenses		CADD	0	#Hours	\$35	\$0
		Misc Expenses	B	Materials	0	LS	\$35	\$0
	CHI				0	1	\$35	\$0 \$0
	300000000	BTOTAL OTHER E	XPENSES	Materials	0	LS	\$35	\$0
	CO	BTOTAL OTHER E	EXPENSES IER COE:	Materials		LS LS		\$0 \$0 \$0
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES ER COE: syments	Materials	Amou	LS LS	Staff Average	\$0 \$0 \$0 \$0
	CO 1	BTOTAL OTHER E	ER COE: syments Principal	Materials	Amou 0	LS LS int Hours	Staff Average	\$0 \$0 \$0 \$ Amount \$ O
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	ER COE: syments Principal Supervisor	Materials deproduction	Amou 0	LS LS Int Hours Hours	Staff Average	\$0 \$0 \$0 \$ Amount \$0 \$0
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	ER COE: syments Principal Supervisor Senior Architect	Materials deproduction	Amou 0 0	LS LS Int Hours Hours Hours	Staff Average \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	ER COE: syments Principal Supervisor Senior Architect Architect/Engine	Materials Reproduction t/Engineer	Amou 0 0 0	nt Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra	Materials Reproduction t/Engineer	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary	Materials Reproduction t/Engineer	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CO 1	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	ER COE: nyments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other	Materials Reproduction t/Engineer	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CO I	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary	Materials Reproduction t/Engineer	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8)	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	Materials Reproduction t/Engineer	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8)	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	Materials Reproduction t/Engineer	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8)	BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	Materials Reproduction t/Engineer ser after/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8) 8)	b. Materials c. Transportation d. Profit Other Corps Pare	ER COE: syments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on	Materials Reproduction t/Engineer eer after/CADD	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8) 8) 9)	b. Materials c. Transportation d. Profit Other Government	ER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254- ment Payments (eg.	Materials Reproduction t/Engineer eer after/CADD	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8) 8) 9) 10)	b. Materials c. Transportation d. Profit Other Government Contract Other Government Contract Other Contract Other Contract Other Contract	ER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254- ment Payments (eg.	Materials Reproduction t/Engineer eer after/CADD	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	9) 10)	b. Materials c. Transportation d. Profit Other Corps Pay	ER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254) ment Payments (contents)	Materials Reproduction t/Engineer eer after/CADD	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	8) 8) 9) 10)	b. Materials c. Transportation d. Profit Other Corps Pay Other Government Contract MMARY Total Estimated	ER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254- ment Payments (eg.	Materials deproduction t/Engineer eer after/CADD 4's) eg. 1144's) COE	Amou 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

	EU	IDGET WORKS	HEET					26-Aug-94
	PRO	OJECT:	WILLAMETTE RIV	VER TEMPE	RATUR	E CONTRO)L FEASIBILI	
	*******	SK:	Cougar FDM (all				ORG CODE	
		FICE:	Hydraulic Design				DL	
		RECT CHARGES:						
	1) a	a. Labor			Amoun	-	Staff Averag	
	1		Branch Chief	14	0	Hours	\$52	\$0
			Section Chief	13		Hours	\$44	\$5,545
			Architect/Engine			Hours	\$37	\$16,714
] :]		Architect/Engine			Hours	\$34	\$36,382
			Technician	7/ 9	40	Hours	\$26	\$1,029
	1		Secretary	5/6	0	Hours	\$17	\$ 0
	ŀ		other		0	Hours	\$O	\$ O
	Sub	btotal In-House D	irect Labor					\$59,670
	2)	Tech Indirect (E	Est Rate:)			64.0%		\$38,189
L	3)	General Admin (Est Rate:)			27.0%		\$16,111
	то	TAL LABOR CHA	RGES					\$113,970
	TR/	AVEL:						
	1000	Travel & Transpo	ortation					
		i		Per Deim	13	# Days	\$75	\$975
			Go	vt Vehicle	800	# Miles	\$0.25	\$200
	1			Flight		#Trips	\$250	\$0
1	1			Auto Rental		#Times	\$35	\$0
L						_		
	su	BTOTAL TRAVEL						\$1,175
	ОТ	HER EXPENSES:						
	5)	Graphics						\$2,500
	6)	Misc Expenses				,		
1	1			CADD	40	#Hours	\$35	\$1,400
1				Materials		LS	_	\$500
				production		LS		\$500
	SU	BTOTAL OTHER	EXPENSES					\$4,900
	СО	NTRACTS & OTH	IER COE:					
	8)	A/E Contract Pa			Amou	~	Staff Averag	
		a. Labor	Principal		0	Hours	\$0	\$0
		٠	Supervisor		0	Hours	\$0	\$0
			Senior Architect/	-	0	Hours	\$0	\$0
1	1		Architect/Engine		0	Hours	\$0	\$0
1			Technician / Draf	fter/CADD	0	Hours	\$0	\$0
1			Secretary		0	Hours	\$0	\$0
			other		0	Hours	\$ 0	\$0
			labor subtotal					\$0
	1	b. Contracts				LS		\$0
		c. Transportation	on			LS		\$0
1	1	d. Profit				10.0%		\$0
[9)	•	yments (eg. 2544			WES		\$30,000
	10)		ment Payments (e		The second second			
	SU	BTOTAL CONTRA	ACTS & OTHER C	OE				\$30,000
	SU	MMARY						
	11)) Total Estimate	d Cost for Accour	nt 30.A.				\$150,045
L	12)	Contingency,	Account 30.A.A.			5%		\$7,502
	13) TOTAL FOI	R OFFICE					\$157,547

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEM	PERATI	URE CC	NTRO	. FEAS	HBILITY	' STUC	iΥ
	TASK: Cougar FDM							
000000	OFFICE: Hydraulic Design	1						
			40		HOURS		5.40	
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Diversion	 			400		<u> </u>	<u> </u>
	Hydraulic design	 	20	80	160		ļ	
		 				 		ļ
	Tower Features	 	- 00		000		<u> </u>	
_	Design	 	20	80	200	<u> </u>	<u> </u>	
	Hydraulic analysis	 	20	40	120		ļ	ļ
	Coordination	 		40	80		ļ	}
								
	Instrumentation	 		- 00	100		ļ	
	Design and Quantities	 	5	20	100	40		
	plate	ļ. —	0	0	20	40		
	Coordination	 	0	10	40			
	WES(in house support)	1	0	20	40		<u> </u>	
		 						<u> </u>
	Report	 -			100			
	Text	ļ	0	40	120			
	Coordination and Meetings	}	20	40	120			
	Review	 	20	40	40		<u> </u>	
	Site Visits	├	20	30	30			
	0 15 0 1	 			_	ļ <u>.</u>	 	
	General Design Conference	1		8	8		ļ	
		100000000000000000000000000000000000000						
		0	125	448	1078	40	0	0
3388888		0	125				0	_ O
	A/F LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY	Prin.	125 Supr.				Sec.	
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
	A/E LABOR ACTIVITY				HOURS	S		
		Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR ACTIVITY A/E LABOR TOTALS				HOURS	S		
		Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
		Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR TOTALS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR TOTALS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR TOTALS REMARKS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR TOTALS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR TOTALS REMARKS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR TOTALS REMARKS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other

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	Βŧ	JDGET WORKS	SHEET					26-Aug-94
	PR	OJECT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIBIL	
ļ	TΑ	SK:	Cougar FDM				ORG CODE	
	OF	FICE:	Reservoir Regu	ulation & Wate	r Quali	ty	DR	
		RECT CHARGES:						
	1) :	a. Labor			Amour	•	Staff Avera	ge \$ Amount
			Branch Chief	14	0	Hours	\$52	\$0
			Section Chief	13	28	Hours	\$44	\$1,232
			Architect/Engi		0	Hours	\$37	\$0
			Architect/Engi		200	Hours	\$34	\$6,800
			Technician	7/ 9	0	Hours	\$26	\$O
			Secretary	5/6	0	Hours	\$17	\$ 0
	l		Stay-In-School	3/4	0	Hours	\$12	\$O
	1	btotal In-House Di						\$8,032
	2)	Tech Indirect (E	•			64.0%		\$5,140
	3)	General Admin (27.0%		\$2,169
		TAL LABOR CHA	RGES					\$15,341
	10000000	AVEL:						
	4)	Travel & Transpo	rtation		-			
				Per Deim	0	# Days	\$75	\$0
				Govt Vehicle	0	# Miles	\$0.25	\$0
				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
*******	CIN	BTOTAL TRAVEL						\$0
								su su
					va vojili vivo vidano ca			
	*********	HER EXPENSES:						
	5)	Graphics						\$0
	*********			CARD		#Lloure	625	
	5)	Graphics		CADD Materials	0	#Hours	\$35	\$0
	5)	Graphics		Materials	0	LS	\$35	\$0 \$0
	5) 6)	Graphics Misc Expenses			0	i .	\$35	\$0 \$0 \$0
	5) 6) SUI	Graphics Misc Expenses BTOTAL OTHER E	EXPENSES	Materials	0	LS	\$35	\$0 \$0
	5) 6) SUI	Graphics Misc Expenses BTOTAL OTHER E	EXPENSES IER COE:	Materials		LS LS		\$0 \$0 \$0 \$0
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments	Materials	Amou	LS LS nt	Staff Avera	\$0 \$0 \$0 \$0
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E	EXPENSES IER COE: ayments Principal	Materials	Amou 0	LS LS nt Hours	Staff Average \$115	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES JER COE: ayments Principal Supervisor	Materials Reproduction	Amou 0 40	LS LS nt Hours Hours	\$115 \$100	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$4,000
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES ER COE: ayments Principal Supervisor Senior Archited	Materials Reproduction	Amou 0 40 80	LS LS nt Hours Hours Hours	Staff Average \$115 \$100 \$85	\$0 \$0 \$0 \$8 \$8 ge \$ Amount \$0 \$4,000 \$6,800
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Archited Architect/Engir	Materials Reproduction ct/Engineer	Amou 0 40 80 240	nt Hours Hours Hours Hours	\$taff Average \$115 \$100 \$85 \$61	\$0 \$0 \$0 \$0 \$6 \$0 \$4,000 \$6,800 \$14,640
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Di	Materials Reproduction ct/Engineer	Amou 0 40 80 240	nt Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66	\$0 \$0 \$0 \$0 \$0 \$14,000 \$14,640 \$0
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES ayments Principal Supervisor Senior Archited Architect/Engir Technician / De	Materials Reproduction ct/Engineer	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0
	5) 6) SUI CO (8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	EXPENSES EXPENS	Materials Reproduction ct/Engineer	Amou 0 40 80 240	nt Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66	\$0 \$0 \$0 \$8 \$8 \$8 \$1 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0
	5) 6) SUI COI 8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor	EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Do Secretary other labor subtotal	Materials Reproduction ct/Engineer	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$25,440
	5) 6) SUI COI 8)	Graphics Misc Expenses BTOTAL OTHER I NTRACTS & OTH A/E Contract Pa a. Labor	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Do Secretary other labor subtotal o tests)	Materials Reproduction ct/Engineer	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$12,000
	5) 6) SUI COI 8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials (labor)	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Do Secretary other labor subtotal o tests)	Materials Reproduction ct/Engineer	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Lours LS	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$12,000 \$12,000
	5) 6) SUI COI 8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials (lab c. Transportation d. Profit	EXPENSES EXPENS	Materials Reproduction ct/Engineer neer rafter/CADD	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$8 \$8 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744
	5) 6) SUI COI 8)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor D. Materials (labor) C. Transportation D. Profit Other Corps Pay	EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Do Secretary other labor subtotal otests) on yments (eg. 254	Materials Reproduction ct/Engineer neer rafter/CADD	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Lours LS	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$12,000 \$12,000
	5) 6) SUI CO (8) 9) 10)	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor D. Materials (labor) C. Transportation D. Profit Other Corps Pay	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Do Secretary other labor subtotal o tests) on yments (eg. 254 nent Payments	Materials Reproduction ct/Engineer neer rafter/CADD	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Lours LS	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$8 \$8 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744
	5) 6) SUI CO 8) 9) 10) SUI	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor D. Materials (labor) D. Transportation d. Profit Other Corps Pay Other Government	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Do Secretary other labor subtotal o tests) on yments (eg. 254 nent Payments	Materials Reproduction ct/Engineer neer rafter/CADD	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Lours LS	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$10 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$12,000 \$12,000 \$12,000 \$12,000
	5) 6) SUI COI 8) 9) 10) SUI	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor D. Materials (labor) D. Materials (labor)	EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Do Secretary other labor subtotal o tests) on yments (eg. 254 nent Payments ACTS & OTHER	Materials Reproduction ct/Engineer neer rafter/CADD	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Lours LS	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$10 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000
	5) 6) SUI CO 8) 9) 10) SUI	Graphics Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor D. Materials (lab c. Transportation d. Profit Other Corps Pay Other Governm BTOTAL CONTRA MMARY Total Estimated	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Do Secretary other labor subtotal otests) on yments (eg. 254 nent Payments ACTS & OTHER	Materials Reproduction ct/Engineer neer rafter/CADD 44's) (eg. 1144's) COE	Amou 0 40 80 240 0	nt Hours Hours Hours Hours Hours Hours Hours Lours LS	\$taff Average \$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744 \$20,000

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERAT	URE CO	NTRO	FEAS	(BILIT)	STUE	ìΥ
	TASK: Cougar FDM							
-00000000	OFFICE: Reservoir Regulation & Wa	iter Qu	ality					
					HOURS			·
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	3/4
	instream instrumentation coordination with USGS	<u>s</u>	8		60		<u> </u>	
	diversion plan water quality text	ļ	12		80			
	water quality study S&A	ļ	8		60		<u> </u>	
		Ļ						
		<u> </u>						
		<u> </u>						
								
		<u> </u>						
		 						
		 				<u> </u>		
						<u> </u>	Ĺ	
		Ricenson and all a		Barada karilat	(Setember)			
		0	28	0	200	0	0	0
		,						
		i		1	HOURS	:		
			-					
	A/E LABOR-ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR-ACTIVITY	Prin.	Supr.				Sec.	other
		Prin.		Sr AE	AE		Sec.	other
	A/E LABOR-ACTIVITY water quality study, provide report	Prin.	Supr. 40		AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other
		Prin.		Sr AE	AE		Sec.	other

REMARKS

- 1 A/E delivery orders under \$150K
- -does not include analysis of changes to Selective Withdrawal System
- -WES warer quality analysis \$20K

	BUDGET WO	RKSHEET			26-Aug-94
	PROJECT:	WILLAMETTE RIVER TEMPE	RATURE CONTRO	L FEASIBILIT	Y STUDY
	TASK:	Cougar FDM		ORG CODE	
	OFFICE:	Hydrologic, Coastal & River		DN	
	DIRECT CHARG			····	
000000	1) a. Labor		Amount S	Staff Average	\$ Amount
		Branch Chief 14	0 Hours	\$52	\$0
		Section Chief 13	140 Hours	\$44	\$6,160
		Architect/Engineer 12	184 Hours	\$37	\$6,808
		Architect/Engineer 11	890 Hours	\$34	\$30,260
		Technician 7/9	0 Hours	\$26	\$0
		Secretary 5/6	0 Hours	\$17	\$0
l		other	0 Hours	\$12	\$0
	Subtotal In-Hous	se Direct Labor			\$43,228
	2) Tech Indire	ct (Est Rate:)	64.0%		\$27,666
		nin (Est Rate:)	27.0%		\$11,672
	TOTAL LABOR (***************************************			\$82,565
	TRAVEL:				1 .ee/.ooc
	4) Travel & Trai	esportation			
	147 Haver & Har	Per Deim	4 # Days	\$75	\$300
		Govt Vehicle		\$0.25	
		Flight	#Trips	\$250	\$150
		Auto Rental		\$35	\$0
		Auto nentai	# fillies	\$35	\$0
	SUBTOTAL TRA	VEL			\$450
	OTHER EXPENS	ES:			
	5) Graphics				\$0
	5) Graphics 6) Misc Expen	ses		· · · · · · · · · · · · · · · · · · ·	\$0
	5) Graphics 6) Misc Expen	ses CADD	0 #Hours	\$35	
	1		0 #Hours LS	\$35	\$0
	1	CADD Materials		\$35	\$0 \$900
	1	CADD Materials Reproduction	LS	\$35	\$0
	6) Misc Expension	CADD Materials Reproduction ER EXPENSES	LS	\$35	\$0 \$900 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS &	CADD Materials Reproduction ER EXPENSES OTHER COE:	LS LS		\$0 \$900 \$0 \$900
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: ct Payments	LS LS Amount S	Staff Average	\$0 \$900 \$0 \$900
	SUBTOTAL OTH CONTRACTS & 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: ct Payments Principal	LS LS Amount S	Staff Average	\$0 \$900 \$0 \$900 \$ Amount \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: ct Payments Principal Supervisor	LS LS Amount S O Hours O Hours	Staff Average \$0 \$0	\$0 \$900 \$0 \$900 \$ Amount \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer	LS LS Amount S O Hours O Hours O Hours	Staff Average \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$ Amount \$0 \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: ct Payments Principal Supervisor	Amount S O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$Amount \$0 \$0 \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: ct Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD	Amount S O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$4 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: Et Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer	Amount S O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$Amount \$0 \$0 \$0 \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount S O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$Amount \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract	CADD Materials Reproduction ER EXPENSES OTHER COE: EX Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount S O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$4 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTH CONTRACTS & 8 8) A/E Contract a. Labor	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount S O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$1 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expension SUBTOTAL OTH CONTRACTS & 8 8) A/E Contract a. Labor b. Materials	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount S O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$4 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTH CONTRACTS & 8) A/E Contract a. Labor b. Materials c. Transport d. Profit	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount S O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$1 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transport d. Profit 9) Other Corps	CADD Materials Reproduction ER EXPENSES OTHER COE: EX Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount S O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$1 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transport d. Profit 9) Other Corps 10) Other Gove	CADD Materials Reproduction ER EXPENSES OTHER COE: EX Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal tation Payments (eg. 2544's)	Amount S O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$1 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transport d. Profit 9) Other Corps SUBTOTAL OTH CONTRACTS & 6 8) A/E Contract a. Labor	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal tation Payments (eg. 2544's) ernment Payments (eg. 1144's)	Amount S O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$0 \$900 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	b. Materials c. Transport d. Profit 9) Other Corps 10) Other Gove SUBTOTAL CON	CADD Materials Reproduction ER EXPENSES OTHER COE: Ext Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal tation Payments (eg. 2544's) ernment Payments (eg. 1144's)	Amount S O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$0 \$900 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	b. Materials c. Transport d. Profit 9) Other Corps 10) Other Gov SUBTOTAL CON SUMMARY 11) Total Estim	CADD Materials Reproduction ER EXPENSES OTHER COE: In Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal tation Payments (eg. 2544's) ernment Payments (eg. 1144's) TRACTS & OTHER COE	Amount S O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$900 \$0 \$900 \$0 \$900 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI TASK: Cougar FDM	PERATE	JRE CC	NTRO	. FEAS	IBILITY	STUD	Ÿ
	OFFICE: Hydrologic, Coastal & Rive	er.						
				ı	HOURS	3		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Coordination							
	General				80			
	Meetings (a 1 year duration)				30			
	Flood Control Analysis of Diversion Scheme							
	Coodination w/RCC (Modified Control)	<u> </u>			20			
	Flood Routings		20		160			
	flood Frequency Analysis by month		20		160			
		<u> </u>						
	Conservation Analysis of Diversion Scheme							
	Coordination w/RCC (Modified Conservation)				40			
	Conservation Routings (Monthly flows)							
	Model set up		10		80			
	Routings/tabulate results	<u> </u>	20		120			
				100				
_	Sedimentation analysis of diversion		20	120			 	
		.			40			
	Site Visit	<u> </u>	20	40	40		 	
		-						
	Text	 	10	20	80			
	Review	1	20		40			
	Revise/Incorporate Comments	 		4	20			
	Closeout files	1			20			
					···			
		0	140	184	890	0	0	0
		Sibility of the second						#164606000000000000000000000000000000000
		Γ			HOURS	3		
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
e de la constante de la consta			•					
	A/E LABOR TOTALS	0	О	0	0	0	0	0
		2000 State Control		i Militariya a cası	Militaria		2000ddanggaraa	digital supremous
2888								
	REMARKS							

	BUDGET WORKS						9-Nov-94
1	PROJECT:	WILLAMETTE	RIVER TEMPE	RATURI	CONTR	DL FEASIBILITY	STUDY
	TASK:	Cougar FDM				ORG CODE	
L	OFFICE:	Geotechnical E	ingineering			CJ	
	DIRECT CHARGES:						
	1) a. Labor			Amoun	1	Staff Average	\$ Amount
		Branch Chief	14	140	Hours	\$52	\$7,280
		STL	13		Hours	\$44	\$20,328
		Geol/Engr-Scie		1168	Hours	\$37	\$43,216
		Geol/Engr-Scie			Hours	\$34	\$6,528
		Technician	7/9	216	Hours	\$26	\$5,616
		Secretary	5/6	0	Hours	\$17	\$ 0
		other		0	Hours	\$12	\$O
l	Subtotal In-House D						\$82,968
	2) Tech Indirect (I	•			64.0%		\$53,100
	3) General Admin				27.0%		\$22,401
	TOTAL LABOR CHA	RGES					\$158,469
	TRAVEL:						
	4) Travel & Transpo	ortation					
			Per Diem	8	# Days	\$75	\$600
		(Govt Vehicle	3150	# Miles	\$0.25	\$788
İ			Flight		#Trips	\$250	\$O
			Auto Rental		#Times	\$35	\$O
500000000							
	SUBTOTAL TRAVEL	•					\$1,388
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses						
			CADD		#Hours	\$35	\$7,560
			Materials		LS		\$50
	SUBTOTAL OTHER		Reproduction		LS		\$0
	Signature 1. N						
	CONTRACTS & OTH						\$7,610
		An annual transfer of the second seco					
	8) A/E Contract Pa	ayments		Amou		Staff Average	\$ Amount
	8) A/E Contract Pa a. Labor	ayments Principal		0	Hours	\$115	\$ Amount \$0
		ayments Principal Supervisor	0.:	0	Hours Hours	\$115 \$100	\$ Amount \$0 \$0
		ayments Principal Supervisor Senior Geol/En	_	0 0 95	Hours Hours Hours	\$115 \$100 \$85	\$ Amount \$0 \$0 \$0 \$8,075
		ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie	n	0 0 95 0	Hours Hours Hours Hours	\$115 \$100 \$85 \$61	\$ Amount \$0 \$0 \$0 \$8,075 \$0
		ayments Principal Supervisor Senior Geol/En Geol/Engr-Sciel Technician / Dr	n	0 0 95 0	Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66	\$ Amount \$0 \$0 \$0 \$8,075 \$0 \$0
		ayments Principal Supervisor Senior Geol/Eng Geol/Engr-Sciel Technician / Dr Secretary	n	0 0 95 0 0	Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$0 \$8,075 \$0 \$0 \$0
		ayments Principal Supervisor Senior Geol/Engeol/Engr-Sciel Technician / Dr Secretary other (survey)	n	0 0 95 0 0	Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000
	a. Labor	ayments Principal Supervisor Senior Geol/Eng Geol/Engr-Sciel Technician / Dr Secretary	n	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075
	a. Labor b. Materials	ayments Principal Supervisor Senior Geol/Engr-Sciel Technician / Dr Secretary other (survey) labor subtotal	n	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075 \$0
	a. Labor b. Materials c. Transportatio	ayments Principal Supervisor Senior Geol/Engr-Sciel Technician / Dr Secretary other (survey) labor subtotal	n	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0
	a. Labor b. Materials c. Transportation d. Profit	ayments Principal Supervisor Senior Geol/Eng Geol/Engr-Scie Technician / Dr Secretary other (survey) labor subtotal	n rafter/CADD	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0
	 a. Labor b. Materials c. Transportation d. Profit 9) Review Panel for 	ayments Principal Supervisor Senior Geol/Engr-Scien Technician / Dr Secretary other (survey) labor subtotal on	rafter/CADD	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0
	 b. Materials c. Transportation d. Profit 9) Review Panel fo 10) Other Govern 	ayments Principal Supervisor Senior Geol/Engr-Scien Technician / Dr Secretary other (survey) labor subtotal on er establishing gr ment Payments	round motions (eg. 1144's)	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0 \$0 \$15,000
	b. Materials c. Transportation d. Profit 9) Review Panel for 10) Other Governments	ayments Principal Supervisor Senior Geol/Engr-Scien Technician / Dr Secretary other (survey) labor subtotal on er establishing gr ment Payments	round motions (eg. 1144's)	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Review Panel for 10) Other Governing SUBTOTAL CONTRA	ayments Principal Supervisor Senior Geol/Engr-Scien Technician / Dr Secretary other (survey) labor subtotal on er establishing gr ment Payments ACTS & OTHER	rafter/CADD round motions (eg. 1144's)	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0 \$0 \$15,000
	b. Materials c. Transportation d. Profit 9) Review Panel for 10) Other Governing SUBTOTAL CONTRA	ayments Principal Supervisor Senior Geol/Engr-Sciel Technician / Dr Secretary other (survey) labor subtotal on er establishing gr ment Payments ACTS & OTHER	round motions (eg. 1144's) COE	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS LS 0.0%	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0 \$0 \$15,000 \$23,075
	b. Materials c. Transportation d. Profit 9) Review Panel for 10) Other Governing SUBTOTAL CONTRA	ayments Principal Supervisor Senior Geol/Engr-Scie Technician / Dr Secretary other (survey) labor subtotal on er establishing gr ment Payments ACTS & OTHER d Cost for Accord	round motions (eg. 1144's) COE	0 0 95 0 0 0	Hours Hours Hours Hours Hours Hours LS	\$115 \$100 \$85 \$61 \$66 \$29	\$ Amount \$0 \$0 \$8,075 \$0 \$0 \$0 \$15,000 \$23,075 \$0 \$0 \$0 \$15,000

TASK WORKSHEET WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY PROJECT: TASK: Cougar FDM OFFICE: Geotechnical Engineering **HOURS** DIRECT LABOR ACTIVITY 14 13 12 11 5/6 other General Design Conference 8 8 8 2 10 Preparation of SOW for D.O.. 160 Meetings & Coordination 64 Review Existing Data 37 72 Literature Search 40 80 **Define Material Properties** 8 Develop Stability of Embankment and slopes 8 80 Design and Analysis 30 8 192 Prepare FDM Text 30 100 120 Prepare 4 FDM Drawings 30 17 64 216 16 24 Calculate Quantities 2 40 40 Aggregate Source Study 40 Prepare Presentations 8 24 Presentations & IPR 16 16 Instrumentaiton Plan 2 8 40 Interim Reviews/Revisions 30 68 152 128 Response to Review Comments 24 16 8 32 16 16 Site Visits -8 Review of VE Proposals Review new ground motions, establish criteria 140 462 1168 192 216 0 **HOURS** A/E LABOR ACTIVITY Prin. Supr. Sr AE ΑE T/D other Consultant Delivery Order (embankment during drawdown) 95 See review panel on budget worksheet 0 0 0 95 0 0 0 A/E LABOR TOTALS REMARKS -1 A/E delivery order under \$150K

CFDM.XLW

	BUDGET WORKS	SHEET					26-Aug	-94
	PROJECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTR	OL FEASIBIL		
	TASK:	Cougar FDM				ORG CODE		
	OFFICE:	Economics				ED		
	DIRECT CHARGES:							
	1) a. Labor		r	Amour	-	Staff Avera		unt
		Branch Chief	14	0	Hours	\$52	\$0	
		Section Chief	13	40	Hours	\$44	\$1,76	
		Architect/Enginee			Hours	\$37	\$7,10	4
		Architect/Enginee		0	Hours	\$34	\$0	
	İ	Technician	7/ 9	0	Hours	\$26	\$O	
		Secretary	5/6	0	Hours	\$17	\$O	
	0	other		0	Hours	\$12	\$0	
	Subtotal In-House D						\$8,86	
	2) Tech Indirect (E	•			64.0%		\$5,67	
1000000	3) General Admin (27.0%		\$2,39	
	TOTAL LABOR CHA	HGES					\$16,93	30
	TRAVEL:	•						
	4) Travel & Transpo				1			
			er Deim		# Days	\$75	\$0	
		Gov	t Vehicle		# Miles	\$0.25	\$0	
			Flight		#Trips	\$250	\$0	
		Α	uto Rental	L	#Times	\$35	\$0	
	SUBTOTAL TRAVEL							\$0
	OTHER EXPENSES:							
*******	5) Graphics	<u></u>		1000 to 00000000000000000000000000000000			T	\$0
	6) Misc Expenses							
	·		CADD	0	#Hours	\$35		\$0
		N	laterials		LS	 		\$0
		Rep	roduction		LS			\$0
	SUBTOTAL OTHER E	XPENSES						\$0
	CONTRACTS & OTH	ER COE:						
	8) A/E Contract Pa	yments		Amou	nt	Staff Average	ge \$ Amou	unt
	a. Labor	Principal		0	Hours	\$0	\$0	
	,	Supervisor		0	Hours	\$O	\$0	
		Senior Architect/E	ngineer	0	Hours	\$O	\$0	
		Architect/Engineer	•	0	Hours	\$O	\$O	
		Technician / Draft	er/CADD	0	Hours	\$O	\$O	
		Secretary		0	Hours	\$O	\$O	
		other		0	Hours	\$O	\$ 0	
		labor subtotal					\$0	
	b. Materials				LS		\$0	
	c. Transportatio	n			LS		\$0	
	d. Profit		_		10.0%		\$O	
	•	ments (eg. 2544's						
******		nent Payments (eg.						**********
	SUBTOTAL CONTRA	CIS & UTHER CO						\$0
	SUMMARY							
	•	Cost for Account	30.A.	ı			\$16,	
		ccount 30.A.A.			10%			693
	13) TOTAL FOR	OFFICE					\$18.6	23

TASK WORKSHEET							
PROJECT: WILLAMETTE RIVER TEM TASK: Cougar FDM	PERATI	JRE CO	NTRO	L FEAS	IBILITY	STUE	ìΥ
OFFICE: Economics							
DIDECT LABOR ACTIVITY	14	1 40		HOURS		E/O	- 4h
DIRECT LABOR ACTIVITY update economic analysis	14	13	12	11	9	5/6	other
economic input to water control plan options		16			<u> </u>	<u> </u>	\vdash
update NED costs associated with construction		8				 	
prepare a preliminary Cost Allocation Report	 	8					
meetings and coordination	 	┝	8				
meetings and coordination	 				<u> </u>		\vdash
							
	0	40	192	0	0	0	0
				HOURS			
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
					<u> </u>		— —
					ļ,		
					<u> </u>		
	ļ						
							——
A/E LABOR TOTALS	0	0	0	0	0	0	0
	Section 1999						
DEMARKS							
REMARKS							
							İ
*							-
							- 1
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BUDGET WORK	(SHEET			26-Aug-94
PROJECT:	WILLAMETTE RIVER TEMPE	RATURE CONTR	OL FEASIBILITY	STUDY
TASK:	Cougar FDM		ORG CODE	
OFFICE:	Fish and Wildlife		EN	
DIRECT CHARGES	S:			
1) a. Labor		Amount	Staff Average	\$ Amount
	Branch Chief 14	0 Hours	\$52	\$ 0
	Section Chief 13	18 Hours	\$44	\$792
	Architect/Engineer 12	240 Hours	\$37	\$8,880
	Architect/Engineer 11	0 Hours	\$34	\$ O
	Technician 7/9	0 Hours	\$26	\$ 0
	Secretary 5/6	0 Hours	\$17	\$O
	other	0 Hours	\$12	\$ 0
Subtotal In-House				\$9,672
2) Tech Indirect	•	64.0%		\$6,190
General Admir		27.0%		\$2,611
TOTAL LABOR CH	ARGES			\$18,474
TRAVEL:				
4) Travel & Trans	portation			
	Per Deim	5 # Days	\$75	\$375
	Govt Vehicle	2000 # Miles	\$0.25	\$500
	Flight	#Trips	\$250	\$O
	Auto Rental	#Times	\$35	\$ 0
SUBTOTAL TRAVI				\$875
				90/0
OTHER EXPENSES	<u>:</u>			
5) Graphics			Į	\$0
6) Misc Expense		<u> </u>		
	CADD	0 #Hours	\$35	\$0
	Materials	LS		\$0
0115-0-11	Reproduction	LS		\$0 \$0
SUBTOTAL OTHER				50
CONTRACTS & O		-		
8) A/E Contract	•	Amount	Staff Average	\$ Amount
a. Labor	Principal	0 Hours	\$0	\$ 0
	Supervisor	0 Hours	\$0	\$ 0
	Senior Architect/Engineer	0 Hours	\$0	\$O
	Architect/Engineer	0 Hours	\$0	\$O
	Technician / Drafter/CADD	0 Hours	\$0	\$0
	Secretary	0 Hours	\$0	\$0
	other	0 Hours	\$O	\$O
	labor subtotal			\$0
b. Materials		LS		\$0
c. Transporta	tion	LS	ļ	\$O
d. Profit		10.0%		\$O
1	Payments (eg. 2544's)			
	nment Payments (eg. 1144's) RACTS & OTHER COE			\$0
SUMMARY	ING IG G CHIEF OUL		<u> </u>	***
	ted Cost for Account 30.A.			\$19,349
1 '	Account 30.A.A.	10%		\$1,935
	OR OFFICE	1076		\$21,283
13) TOTAL FO				

TASK WORKSHEET							
PROJECT: WILLAMETTE RIVER TEM! TASK: Cougar FDM	PERATI	JRE CC	NTRO	FEAS	IBILITY	' STUD	Υ
OFFICE: Fish and Wildlife							
DIDECT LABOR ACTIVITY	14	12	12	HOURS	9	F/6	
DIRECT LABOR ACTIVITY internal coordination meetings	14	13 4	40	11	9	5/6	other
 agency coordination meetings		4	40				
 develop measures to reduce fish impacts		4	80		<u> </u>		-
site visits		4	40				
 Cultural Resource Coordination		2	40				
	0	18	240	0	0	0	0
				HOURS			
A/E LABOR-ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
		_					
				İ			
				_			
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							
 CFDM X	(I W						

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	BUDGET WORKS	SHEET					26-Aug-94
	PROJECT:	WILLAMETTE F	RIVER TEMPE	RATUF	E CONTR	OL FEASIBIL	
	TASK:	Cougar FDM				ORG CODE	
	OFFICE:	Environmental I	Planning			EM	
	DIRECT CHARGES:						
	1) a. Labor			Amou	nt	Staff Averag	e \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	0	Hours	\$44	\$0
		Architect/Engin	eer 12	4	Hours	\$37	\$148
		Architect/Engin	eer 11	88	Hours	\$34	\$2,992
		Technician	7/ 9	0	Hours	\$26	\$0
ĺ		Secretary	5/6	0	Hours	\$17	\$0
		Stay-In-School	3/4	0	Hours	\$12	\$0
	Subtotal In-House D	=		·			\$3,140
	2) Tech Indirect (E	st Rate:)			64.0%		\$2,010
	3) General Admin (Est Rate:)			27.0%		\$848
	TOTAL LABOR CHA				1		\$5.997
	TRAVEL:						
	4) Travel & Transpo	vrtation					
	Traver & Transpo	i tation	Per Deim	0	# Days	\$75	\$0
		G	ovt Vehicle	0	# Miles	\$0.25	
		C	Flight	 			\$0
			Auto Rental	-	#Trips #Times	\$250	\$0
			Auto nentai		# imes	\$35	\$0
	SUBTOTAL TRAVEL	T.					\$0
	OTHER EXPENSES:						
302-10035	5) Graphics						\$0
	6) Misc Expenses						40
	,		CADD	0	#Hours	\$35	\$0
			Materials		LS		\$0
		R	eproduction		LS		\$0
	SUBTOTAL OTHER E						\$0
	CONTRACTS & OTH	ER COE:					
*******	8) A/E Contract Pa			Amou	nt	Staff Average	e \$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
	u. 2000.	Supervisor		0	Hours	\$0	\$0
	•	Senior Architect	/Fngineer	0	Hours	\$0	\$0
		Architect/Engine		0	Hours	\$0	\$0
		Technician / Dra		0	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$O
		other		0	Hours	\$0	\$0
		labor subtotal			riouis		\$0
	b. Materials	.abo. bab.bta.			LS		\$0
- 1	c. Transportatio	ın			LS		\$0
	d. Profit	•••		1	10.0%		\$0
ŀ		ments (eg. 254)	4's)		/ .		
	•	nent Payments (e					
	SUBTOTAL CONTRA						\$0
	SUMMARY						1
		Cost for Accou	nt 20 ^				1 2500
- 1		ccount 30.A.A.	iii 30.A.	1	50%		\$5,997
	13) TOTAL FOR				3070		\$2,999 \$ 8,996
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	TASK WORKSH	IEET							
	PROJECT:	WILLAMETTE RIVER TEN	APERAT	URE C	ONTRO	L FEAS	BILITY	/ STUE	Υ
	TASK:	Cougar FDM							
	OFFICE:	Environmental Planning							
						HOURS	3		
	DIRECT LABOR AC	TIVITY	14	13	12	11	9	5/6	3/4
	review FDM					16			
	attend meetings (d	esign/material changes)				16			
		ental documents are req'd			4	16			
·	prepare section 40				<u> </u>	40			
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	1		т—			HOURS			
	A/E LABOR-ACTIV	ITV	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/E LABOR ACTIV		1	Supi.	31 AL	1 AL	170	Jec.	Other
				 	 			 	
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				T		l	1		
									<u> </u>
	A/E LABOR TOTAL	.s	0	0	0	0	0	0	0

REMARKS

-additional funding would be required if additional documents are needed (high cont. %)

	BUDGET WORKS	SHEET					26-Aug	-94
	PROJECT:	WILLAMETTE RIV	ER TEMPE	RATURE CO	NTROL I	FEASIBIL	JTY STUDY	
	TASK:	Cougar FDM			Γ	ORG CODE		
	OFFICE:	Technical Resource	ces Branch			CR		
	DIRECT CHARGES:							
	1) a. Labor		į.	Amount		ff Avera	ge\$ Amoi	unt
		Branch Chief	14	0 Hou		\$52	\$0	
		Section Chief	13	40 Hou		\$44	\$1,76	0
		Architect/Enginee		0 Hou	L	\$37	\$0	
		Architect/Enginee		135 Hou		\$34	\$4,59	0
		Technician	7/ 9	676 Hou	L	\$26	\$17,57	76
		Secretary	5/6	40 Hou		\$17	\$680)
		Stay-In-School	3/4	100 Hou	ırs [\$12	\$1,20	0
	Subtotal In-House Di						\$25,80)6
	2) Tech Indirect (E	·		64.0			\$16,51	6
20000000	3) General Admin (27.0	0%		\$6,96	8
	TOTAL LABOR CHAI	RGES					\$49,28	19
	TRAVEL:							
	4) Travel & Transpo	rtation						
		P	er Deim	0 # D	_	\$75	\$O	
		Gov	t Vehicle	0 # M		\$0.25	\$0	
			Flight	#Tri	ps _	\$250	\$ 0	
		Α	uto Rental	#Tir	nes 🗌	\$35	\$0	
88888	SUBTOTAL TRAVEL		Soletono di Soletono di Soletono di Soletono di Soletono di Soletono di Soletono di Soletono di Soletono di So					
								\$0
	OTHER EXPENSES:							
	5) Graphics							\$0
	6) Graphics 6) Misc Expenses		CADD	#u ₌		A25		
	•	N	CADD fatoriolo	0 #Ho	urs [\$35		\$0
	•		faterials	LS	urs [\$35		\$0 \$0
	6) Misc Expenses	Rep			urs [\$35		\$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E	Rep EXPENSES	faterials	LS	urs [\$35		\$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E	Rep EXPENSES ER COE:	faterials	LS LS				\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES ER COE: yments	faterials	LS LS Amount	Staf	f Averag		\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal	faterials	LS LS Amount	Staf	f Averag	\$O	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor	faterials production	LS LS Amount 0 Hou 0 Hou	Staf	f Averag	\$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E	faterials production	Amount O Hou O Hou	Staf rs rs	f Averag \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer	faterials production mgineer	Amount O Hou O Hou O Hou O Hou	Staf	f Averag \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte	faterials production mgineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou	Staf	f Averag \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary	faterials production mgineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou	Staf rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other	faterials production mgineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou	Staf rs rs rs rs rs rs	f Averag \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary	faterials production mgineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou O Hou	Staf rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal	faterials production mgineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou	Staf rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials c. Transportation	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal	faterials production mgineer	Amount O Hou O Hou O Hou O Hou O Hou LS LS	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal	ngineer er/CADD	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pay	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal m yments (eg. 2544's	faterials production angineer cer/CADD	Amount O Hou O Hou O Hou O Hou O Hou LS LS	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pay	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal m yments (eg. 2544's nent Payments (eg.	ngineer er/CADD	Amount O Hou O Hou O Hou O Hou O Hou LS LS	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 st
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pay 10) Other Governm SUBTOTAL CONTRA	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal m yments (eg. 2544's nent Payments (eg.	ngineer er/CADD	Amount O Hou O Hou O Hou O Hou O Hou LS LS	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit Other Corps Pay Other Governm SUBTOTAL CONTRA SUMMARY	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal n ments (eg. 2544's nent Payments (eg. CTS & OTHER CO	ngineer er/CADD	Amount O Hou O Hou O Hou O Hou O Hou LS LS	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 s0 int
	b. Materials c. Transportation d. Profit Other Corps Pay Other Governm SUBTOTAL CONTRA SUMMARY	Rep EXPENSES ER COE: yments Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal n ments (eg. 2544's nent Payments (eg. CTS & OTHER CO	ngineer er/CADD	Amount O Hou O Hou O Hou O Hou O Hou LS LS	Staf rs rs rs rs rs rs rs rs	f Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 Int

	TASK WORKSHE	3 T							
	PROJECT: TASK: OFFICE:	WILLAMETTE RIVER TEMI Cougar FDM Technical Resources Brand		JRE CC	NTRO	L FEAS	IBILITY	/ STUD	Υ
						HOURS			
	DIRECT LABOR ACTIV	VITY	14	13	12	11	9	5/6	3/4
	CR 5 A/E delivery orders			40		135	660	40	100
	J A/L delivery orders			+0		133	000	+0	100
	СР								
	budget management				·		16		
	CQ			 		_			
	CQ								
			<u> </u>						
							-		
			0	40	0	135	676	40	100
									(i) and a second
						HOURS			
	A/E LABOR ACTIVITY		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
			ļ						
	<u></u>								
_							, _ , _ , _ , _ , _ , _ , _ , _ , _ , _		
			<u> </u>						
			<u> </u>						
			<u> </u>						
	A/E LABOR TOTALS		0	0	0	0	0	0	0

	REMARKS								
		- 5 A/E delivery orders und	ler \$15	OK eac	h will b	e supp	orted		

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	BUDGET WORKS	SHEET					9-Nov-94
	PROJECT:	WILLAMETTE	RIVER TEMPER	RATURE	CONTRO	OL FEASIBIL	ITY STUDY
	TASK:	Cougar FDM				ORG CODE	
	OFFICE:	Real Estate				PU	
	DIRECT CHARGES:						
	1) a. Labor			Amount		Staff Average	ge \$ Amount
		Division Ch.	13		Hours	\$42	\$672
		Branch Ch.	12	100	Hours	\$36	\$3,550
	:	Attorney	13		Hours	\$39	\$0
				0 1	Hours	\$O	\$O
		Technician	11	12	Hours	\$33	\$390
		Secretary	5/6	12	Hours	\$17	\$198
		other		0	Hours	\$O	\$0
	Subtotal In-House D	irect Labor					\$4,810
	2) Tech Indirect (E	Est Rate:)		F	68.0%		\$3,271
	3) General Admin (Est Rate:)		· ·	18.0%		\$866
	TOTAL LABOR CHA	RGES					\$8,947
	TRAVEL:						
	4) Travel & Transpo	ortation					
			Per Deim	,	# Days	\$75	\$ 0
			Govt Vehicle	400 #	# Miles	\$0.25	\$100
			Flight	7	#Trips	\$250	\$0
			Auto Rental	,	#Times	\$35	\$0
10000000		00000000000000000000000000000000000000	22,000,000,000,000,000				300000
	SUBTOTAL TRAVEL						\$100
	OTHER EXPENSES:						
	5) Graphics	•					\$0
	6) Misc Expenses		0.4.5.5				<u> </u>
			CADD		#Hours	\$35	\$0
			Materials		.S		\$0
3000000	SUBTOTAL OTHER I	EVDENICEC	Reproduction	L	<u>-</u> S		\$55 \$55
							900
	CONTRACTS & OTH			Λ		04 55 6	
	8) A/E Contract Pa	•		Amoun		Staff Average	·
	a. Labor	Principal			lours	\$0	\$0
	•	Supervisor			lours	\$0	\$0
		Senior Archite	_		lours	\$0	\$0
		Architect/Eng			lours	\$0	\$0
		Technician / D	pratter/CADD		lours	\$0	\$0
		Secretary			Hours	\$0	\$0
		other		0 1	Hours	\$0	\$ 0
		labor subtotal		_	_		\$0
	b. Materials				.S		\$O
	c. Transportation	on		_	.S		\$0
	d. Profit			[1	10.0%		\$O
	9) Other Corps Par						
	10) Other Governr SUBTOTAL CONTRA	nent Payments					\$0
		CIO & UTHER					1 30
	SUMMARY 11) Total Estimated	d Coot for Ass	ount 20 A				*****
	•			Г	10%		\$9,102
	12) Contingency, A13) TOTAL FOR		٦.		1070		\$910 \$10,012
							フリングに乗りののののの企業的の電が長り置から長り置め直が差がががま

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI TASK: Cougar FDM OFFICE: Real Estate	PERATI	JRE CC	NTRO	L FEAS	IBILITY	STUE	·Υ
	DIRECT LABOR ACTIVITY	13	12	13	HOURS	11	5/6	other
	Develop Real Estate section	16	100			12	12	
	-write text							
	-delineate construction right-of-way							
							<u> </u>	
							<u> </u>	

		16	100	0	0	12	12	0
					HOURS	}		
	A/E LABOR-ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
_								
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s							
	100 mg							
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	A/E LABOR TOTALS	0	0	0	0	0	0	0

	REMARKS							
	CEDM :	YI \/\						
	CEDIVE							

PROJECT:					-	DATE F	REPARED:
Cougar Temp	erature C	ontrol				CHIDDE	8/29/94
SUBPRODUCT TITLE: Plans and Spe	cification	10					ODUCT #/WBS II
TECHNICAL MANAGER:			PROJE	CT/STI	DY MAN		OFFICE/OBS:
Karl Swanson	NPP-PI		Doug Cl		DI MAN	AGEN.	NPP-PM
SUBPRODUCT SUMMARY DI							
- PMP Worksheet (summary, tot	al cost by	v office)					
•							
- Specific product outline (plates	s, text, dr	awings,	specifica	tions)			
- Individual office Budget and T	ask Worl	ksheets					
UPWARD REPORTED	%	INTER	NAL			%	
MILESTONES DATE		•	TONES		DATE	COMP	COMMITMENT TO
							4
							SCOPE, BUDGET,
							SCOPE, BUDGET, AND SCHEDULE:
•							
•							
•							
,	FY95	FY96	FY97	FY98	FY99	TOTAL	AND SCHEDULE:
CONSTRUCTION COST	FY95	FY96	FY97				AND SCHEDULE:
CONSTRUCTION COST	FY95	FY96		CONTI	NGENCY		AND SCHEDULE:
CONSTRUCTION COST	FY95		TOTAL	CONTI CONST			AND SCHEDULE:
	FY95	0.1	TOTAL 0.8	CONTI CONST 0.1	NGENCY R. COST		AND SCHEDULE:
	FY95		TOTAL 0.8	CONTI CONST 0.1	NGENCY R. COST		AND SCHEDULE:
CONSTRUCTION COST BASELINE ALLOCATION *	FY95	0.1	TOTAL 0.8 775	CONTI CONST 0.1	NGENCY R. COST NGENC	968	AND SCHEDULE:

(Technical Manager)

	-			

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS

Swanson

TASK: Cougar Plans and Specifications

	Office	Org			COSTS			
Organization	Symbol	Code	Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$27,091	\$200	\$250	\$40,700	\$6,824	\$75,066
Design Branch	PE-D	DB	\$12,957	\$0	\$0	\$0	\$1,296	\$14,253
Civil/Land. Design	PE-DC	DC	\$43,315	\$250	\$7,000	\$0	\$10,113	\$60,678
Electrical Design	PE-DE	DD	\$65,364	\$350	\$14,460	\$0	\$16,035	\$96,209
Mechanical Design	PE-DM	DF	\$43,132	\$75	\$6,600	\$0	\$4,981	\$54,787
Struct/Arch Des.	PE-DS	DG	\$110,413	\$400	\$38,760	\$245,780	\$39,535	\$434,888
H & H Branch	PE-H	DK	\$3,958	\$O	\$O	\$0	\$396	\$4,353
Hydraul. Design	PE-HD	DL	\$55,245	\$475	\$3,200	\$0	\$2,946	\$61,866
Res. Regulation	PE-HR	DR	\$ 0	\$0	\$O	\$0	\$O	\$0
Hydrology	PE-HY	DN	\$0	\$0	\$0	\$O	\$O	\$O
Geotech Branch	PE-G	CJ	\$140,950	\$900	\$9,290	\$5,060	\$15,620	\$171,820
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$O	\$0
Fish & Wldlf	PE-RR	EN	\$18,764	\$300	\$0	\$0	\$1,906	\$20,970
Environmental	PE-RP	EM	\$0	\$0	\$0	\$0	\$O	\$0
Tech. Branch	PE-T		\$33,486	\$0	\$5,000	\$0	\$3,849	\$42,335
Project	OP-V	JB	\$1,500	\$0	\$0	\$0	\$O	\$1,500
Real Estate	RE-AP	BU	\$17,982	\$200	\$18	\$0	\$1,800	\$20,000
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$0	\$O	\$4,000
Contract Procuremen	CT-P	ND	\$4,000	\$0	\$0	\$O	\$O	\$4,000
Construction	CO-SC	FE	\$7,000	\$0	\$0	\$O	\$O	\$7,000
TOTALS			\$589,158	\$3.150	\$84,578	\$291.540	\$105,300	\$1,073,726

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COUGAR P&S SCOPE OF WORK
                                   - DRAWINGS
       DS Cover
1
2
       DS Index and Notes
3
       DC Site Map
       G
         Excavation Plan
5
       G
         Excavation Sections I
6
       G Excavation Sections II
7
       G Tunnel Chamber Excavation
8
       G Tunnel Chamber Support
9
       DC Tunnel Outlet
10
       DC Roads and Traffic Control
11
       DC Diversion and Water Control
       DC Grading Plan
12
       DS Intake Structure General
13
14
       DS Concrete and Reinforcement Notes
15
       DS Demolition I
16
       DS Demolition II
       DS Plan and Elevations
17
       DS Sections I
18
19
       DS Sections II
20
       DS Deck Plan
21
       DS RO Trashrack
22
       DS Reinforcement Plan and Elevations
23
       DS Reinforcement Sections I
24
       DS Reinforcement Sections II
25
       DS Reinforcement Deck Plan
26
       DS Reinforcement RO Trashrack
27
       DS Misc. Metal
       DS Structural Steel - Diversion Trashrack
28
29
       DS Structural Steel - Penstock Trashrack
30
       DS Structural Steel - Wetwell Trashrack
31
       DS Structural Steel - Floating Trashracks I
32
       DS Structural Steel - Floating Trashracks II
33
       DM Equipment Plan
34
       DM Temperature Control Gates
35
       DM Bypass Gates
36
       DM Fuse Panel
37
       HD Instrumentation
38
       G Geotechnical Instrumentation
       DE One-Line Diagram
39
40
       DE Control Schematics I
41
       DE Control Schematics II
42
      DE Motor Control Center
43
       DE Plans I
44
       DE Plans II
45
       DE Elevations I
46
       DE Elevations II
47
       DE Sections and Details I
48
       DE Sections and Details II
49
       DE Conduit and Cable Schedule
50
       HD Project Characteristics
51
       HD Project Hydrographs
```

COUGAR P&S SCOPE OF WORK cont...

SPECIFICATIONS

```
Bidding Requirements, Contract Forms, Conditions
         Solicitation
00010
         Instructions to Bidders
00100 T
00700 T Contract Clauses
00750 T Rates of Wages
00800 T Special Clauses
         DIVISION I - GENERAL REQUIREMENTS
         General Requirements
01200 T
01230 T Safety
01300 DS Measurement and Payment
         Sources for Reference Publications
01301 T
01302 T
         Submittal Descriptions
01305 T Submittal Procedures
01400 DC Contractors Operations
01430 DC Environmental Protection
         Contractor Quality Control
01440 T
01500 T
         Quality Assurance
          DIVISION 2 - SITE WORK
02100 DC Roadways
02130 DC Care and Diversion of Water
02150 DC Paving and Leveling
02200 G Excavation
02250 G Foundation Treatment
02271 DC Stone Slope Protection
02300 DS Demolition
02400 G Tunneling and Support
02900 G Geotechnical Instrumentation
          DIVISION 3 - CONCRETE
03100 G Formwork for Concrete
03200 G Concrete Reinforcement
          Waterstops and Joints in Concrete
03250 G
03300 G
          Concrete
          DIVISION 5 - METALS
05120 DS Structural Steel and Misc. Metal
05500 DS Metalwork Fabrication and Machine Work
          DIVISION 9 - FINISHES
09940 DS Painting
          DIVISION 13 - SPECIAL CONSTRUCTION
13080 DM Seismic Protection for Mechanical and Electrical
          Equipment
13220 HD Instrumentation
          DIVISION 15 - MECHANICAL
15095 DM Sluice Gates and Operators
15099 DM Fuse Panel
          DIVISION 16 - ELECTRICAL
16050 DE General
16500 DE Lighting
16920 DE Motor Control Centers
```

	BUDGET	WORKSHEET				26-Aug-94
	PROJECT:	WILLAMETTE	RIVER TEMPE	RATURE CO	ONTROL FEASIB	ILITY STUDY
	TASK:	Cougar Plans	s and Specificat	ions	ORG CODE	1
	OFFICE:	Cost Enginee	ring Branch		CE	
	DIRECT CH	IARGES:				
	1) a. Labo	r		Amount	Staff Aver	age \$ Amount
		Branch Chief	14	O Hou		\$0
		Branch Chief	13	40 Hot	<u> </u>	\$1,920
		Cost Enginee		292 Hou	urs \$42	\$12,264
		Cost Enginee		0 Hou	<u> </u>	\$0
		Technician	7/ 9	0 Hou		\$0
		Secretary	5/6	0 Hou		\$0
		other		O Hou	ırs \$0	\$0
		House Direct Labor		 -		\$14,184
	•	ndirect (Est Rate:)		64.		\$9,078
		l Admin (Est Rate:)		27.	0%	\$3,830
	TOTAL LAB	OR CHARGES				\$27,091
	TRAVEL:					
	4) Travel 8	Transportation				
			Per Deim	2 # D		\$150
			Govt Vehicle	200 # N		\$50
	<u> </u>		Flight	#Tr	·	\$0
			Auto Rental	#Tii	mes \$35	\$0
55555555	SUBTOTAL	TDAVEL			uncur nu con a la compansión a cultura.	\$200
				80m 80 8 4 m 60 8 am 4 60 1		9200
	OTHER EXP					
	5) Graphic					***************************************
	6) Misc E	xpenses	CADD	0 #H	ours \$35	\$0
			Materials	LS	705	\$50
	İ					+00
******	i .		Reproduction			\$200
80000000	SUBTOTAL	OTHER EXPENSES	Reproduction	LS		\$200 \$250
		OTHER EXPENSES	Reproduction			\$200 \$250
	CONTRACT	S & OTHER COE:	Reproduction	LS	Staff Aver	\$250
	CONTRACT 8) A/E Co	S & OTHER COE:	Reproduction	LS	Staff Aver	\$250 age \$ Amount
	CONTRACT	S & OTHER COE: ontract Payments or Principal		Amount 32 Hou	ırs \$80	\$250 age \$ Amount \$2,560
	CONTRACT 8) A/E Co	S & OTHER COE: ontract Payments or Principal Project Mana	ger	Amount 32 Hou 0 Hou	urs \$80 urs \$72	\$250 age \$ Amount \$2,560 \$0
	CONTRACT 8) A/E Co	S & OTHER COE: ontract Payments or Principal Project Mana Senior Cost E	ger Engineer	Amount 32 Hou 0 Hou 280 Hou	urs \$80 urs \$72 urs \$65	\$250 age \$ Amount \$2,560 \$0 \$18,200
	CONTRACT 8) A/E Co	Ontract Payments or Principal Project Mana Senior Cost E Cost Enginee	ger Engineer r	Amount 32 Hou 0 Hou 280 Hou 240 Hou	urs \$80 urs \$72 urs \$65 urs \$53	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720
	CONTRACT 8) A/E Co	ontract Payments or Principal Project Mana Senior Cost Enginee Junior Cost E	ger Engineer r Engineer	Amount 32 Hou 0 Hou 280 Hou 240 Hou 0 Hou	urs \$80 urs \$72 urs \$65 urs \$53 urs \$36	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0
	CONTRACT 8) A/E Co	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T	ger Engineer r Engineer	Amount 32 Hou 0 Hou 280 Hou 240 Hou 0 Hou 40 Hou	urs \$80 urs \$72 urs \$65 urs \$53 urs \$36 urs \$31	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240
	CONTRACT 8) A/E Co	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary	ger Engineer r Engineer Fech	Amount 32 Hou 0 Hou 280 Hou 240 Hou 0 Hou	urs \$80 urs \$72 urs \$65 urs \$53 urs \$36 urs \$31	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0
	CONTRACT 8) A/E Co a. Lab	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T	ger Engineer r Engineer Fech	Amount 32 Hou 0 Hou 280 Hou 240 Hou 0 Hou 40 Hou	urs \$80 urs \$72 urs \$65 urs \$53 urs \$36 urs \$31	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080
	CONTRACT 8) A/E Co a. Lab b. Mat	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota	ger Engineer r Engineer Fech	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou	urs \$80 urs \$72 urs \$65 urs \$53 urs \$36 urs \$31	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800
	CONTRACT 8) A/E Co a. Lab b. Mat	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota	ger Engineer r Engineer Fech	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS	urs \$80 urs \$72 urs \$65 urs \$53 urs \$36 urs \$31	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200
	b. Matc. Traid. Pro	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota	ger Engineer r Engineer Fech	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS	### \$80 ### ### ### ### ### ### ### ### #### ####	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200 \$1,000
	b. Mai c. Trai d. Pro	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota terials nsportation	ger Engineer r Engineer Tech	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS	### \$80 ### ### ### ### ### ### ### ### #### ####	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200 \$1,000 \$3,700
	b. Mat c. Trai d. Pro 9) Other	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota terials nsportation fit Corps Payments (eg. 2	ger Engineer r Engineer Eech I S44's) s (eg. 1144's)	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS	### \$80 ### ### ### ### ### ### ### ### #### ####	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200 \$1,000
	b. Mat c. Trai d. Pro 9) Other	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota terials nsportation fit Corps Payments (eg. 2 r Government Payment	ger Engineer r Engineer Eech I S44's) s (eg. 1144's)	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS	### \$80 ### ### ### ### ### ### ### ### #### ####	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200 \$1,000 \$3,700
	b. Marc. Traid. Prog. Other 10) Other SUBTOTAL	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota terials nsportation fit Corps Payments (eg. 2 r Government Payment	ger Engineer r Engineer Tech I 544's) s (eg. 1144's) R COE	Amount 32 Hou 0 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS	### \$80 ### ### ### ### ### ### ### ### #### ####	\$250 age \$Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200 \$1,000 \$3,700
	b. Mat c. Trai d. Pro 9) Other 10) Othe SUBTOTAL	ontract Payments or Principal Project Mana Senior Cost E Cost Enginee Junior Cost E Engineering T Secretary labor subtota terials nsportation fit Corps Payments (eg. 2 r Government Payment CONTRACTS & OTHE	ger Engineer r Engineer Tech I 544's) s (eg. 1144's) R COE	Amount 32 Hou 280 Hou 240 Hou 40 Hou 40 Hou LS LS 10.	### \$80 ### ### ### ### ### ### ### ### #### ####	\$250 age \$ Amount \$2,560 \$0 \$18,200 \$12,720 \$0 \$1,240 \$1,080 \$35,800 \$200 \$1,000 \$3,700

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Cougar Plans and Specifications OFFICE: Cost Engineering Branch HOURS other DIRECT LABOR ACTIVITY 14 13 12 5/6 11 Review 8 Coordination 8 Meetings 8 A/E D.O. prepare/estimate/negotiate 8 40 A/E D.O. coordinate/review 40 Review Advertized Contract Plans & Specs 32 Site visit 16 **MCACES** 140 24 Finalize Government Cost Estimate 0 40 292 0 0 0 0 **HOURS** PM Sr CE CE Jr CE Tech Prin. A/E LABOR ACTIVITY Secr 8 40 Management 8 Review 8 Coordination Meetings 8 8 Review Plans & Specs & Check Quantities 24 24 40 Site Visit 16 16 Construction Methods & Narratives 24 24 Labor Wage Rate Updates 8 32 24 Crews MCACES & Documentation of Costs 160 120 Review, Check, & Provide Cost Backup Data 16 8 16 32 0 280 240 0 40 40 A/E LABOR TOTALS

REMARKS

- 1 A/E delivery order under \$150K

	BUDGET WORKS	SHEET					26-Aug-94
Г	PROJECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTRO	OL FEASIBILIT	Y STUDY
l	TASK:	Cougar Plans and	Specificat	ions		ORG CODE	
	OFFICE:	Design Branch				DB	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt	Staff Average	\$ Amount
		Branch Chief	14	120	Hours	\$52	\$6,240
		Section Chief	13	0	Hours	\$44	\$0
		Architect/Engineer		0	Hours	\$37	\$0
		Architect/Engineer	· 11	0	Hours	\$34	\$0
		Technician	7/9	0	Hours	\$26	\$0
		Secretary	5/6	32	Hours	\$17	\$544
		other		0	Hours	\$12	\$0
	Subtotal In-House D						\$6,784
	2) Tech Indirect (E				64.0%		\$4,342
	3) General Admin (27.0%		\$1,832
	TOTAL LABOR CHA	RGES					\$12,957
	TRAVEL:						
	4) Travel & Transpo	ortation			_		
		P	er Deim		# Days	\$75	\$ 0
		Gov	t Vehicle		# Miles	\$0.25	\$ O
			Flight		#Trips	\$250	\$ O
		Α	uto Rental		#Times	\$35	\$0
20000000		And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	second the second of African	cui aca cista i i i			
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						T
	5) Graphics						L
	6) Misc Expenses		0400		1411.	405	
		N.	CADD laterials	0	#Hours LS	\$35	\$0
			roduction		LS		
	SUBTOTAL OTHER I		Toduction	Alekto evin French	LO		\$0
	CONTRACTS & OTH 8) A/E Contract Page 1			STREET, STREET	aa uutaaa gadka . Baddaa o		
				A		Stoff Average	Δ A
ľ	1	ayments Principal		Amou	7	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$O	\$ 0
	1	Principal Supervisor	ngineer	0	Hours Hours	\$0 \$0	\$0 \$0
	1	Principal Supervisor Senior Architect/E	-	0 0	Hours Hours Hours	\$0 \$0 \$0	\$0 \$0 \$0
	1	Principal Supervisor Senior Architect/E Architect/Engineer		0 0 0	Hours Hours Hours Hours	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
	1	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Draft		0 0 0 0	Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0
	1	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary		0 0 0 0 0	Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0
	1	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other		0 0 0 0	Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
	a. Labor	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary		0 0 0 0 0	Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0
	a. Labor b. Materials	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal		0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
	a. Labor b. Materials c. Transportation	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal		0 0 0 0 0	Hours Hours Hours Hours Hours Hours Lours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	a. Laborb. Materialsc. Transportationd. Profit	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal	er/CADD	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
	 a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pare 	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal on yments (eg. 2544's	er/CADD	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Lours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal on yments (eg. 2544's ment Payments (eg	er/CADD (s) . 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Lours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pation 10) Other Governr	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal on yments (eg. 2544's ment Payments (eg	er/CADD (s) . 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Lours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pare 10) Other Government SUBTOTAL CONTRA	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal on yments (eg. 2544's ment Payments (eg.	er/CADD (s) . 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Lours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Par 10) Other Governr SUBTOTAL CONTRA SUMMARY 11) Total Estimates	Principal Supervisor Senior Architect/E Architect/Engineer Technician / Drafte Secretary other labor subtotal on yments (eg. 2544's ment Payments (eg	er/CADD (s) . 1144's)	0 0 0 0 0	Hours Hours Hours Hours Hours Hours Lours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	BU	JDGET WORKS	HEET					26-Aug-94
	PRO	OJECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTRO	DL FEASIBILIT	Y STUDY
ľ	TA	SK:	Cougar Plans and	l Specificat	ions		ORG CODE	
	OF	FICE:	Civil and Environn	nental Desig	gn		DC	
	DI	RECT CHARGES:						
	1) a	a. Labor			Amour	7	Staff Average	
ĺ			Branch Chief	14	0	Hours	\$52	\$ 0
			Section Chief	13	40	Hours	\$44	\$1,760
			Architect/Enginee	r 12		Hours	\$37	\$6,808
1	ĺ		Architect/Enginee	r 11	192	Hours	\$34	\$6,528
			Technician	7/ 9	272	Hours	\$26	\$7,072
			Secretary	5/6	30	Hours	\$17	\$510
	l		other		0	Hours	\$12	\$ 0
	Sul	btotal In-House Di	irect Labor					\$22,678
	2)	Tech Indirect (E	st Rate:)			64.0%		\$14,514
	3)	General Admin (Est Rate:)			27.0%		\$6,123
	то	TAL LABOR CHA	RGES		il yayaktı			\$43,315
	TR	AVEL:		n Daries Like i	iji Lawa			
0000000	4)	Travel & Transpo	ortation					
			P	er Deim		# Days	\$75	\$0
			Gov	vt Vehicle	1000	# Miles	\$0.25	\$250
	1			Flight		#Trips	\$250	\$0
			A	uto Rental		#Times	\$35	\$0
	SU	BTOTAL TRAVEL						\$250
	ОТ	HER EXPENSES:						
	5)	Graphics						
	6)	Misc Expenses				7		
	ļ			CADD	200	#Hours	\$35	\$7,000
İ				<i>Materials</i>		LS		
				production		LS		
	su	BTOTAL OTHER	EXPENSES					\$7,000
	CO	NTRACTS & OTH	IER COE:					
	8)	A/E Contract Pa	•		Amou	-	Staff Average	
1		a. Labor	Principal		0	Hours	\$0	\$0
			Supervisor		0	Hours	\$0	\$0
			Senior Architect/E	-	0	Hours	\$0	\$0
	ŀ		Architect/Enginee		0	Hours	\$0	\$O
			Technician / Draft	ter/CADD	0	Hours	\$0	\$0
l			Secretary		0	Hours	\$0	\$0
	İ		other		0	Hours	\$0	\$0
	ł		labor subtotal					\$0
	İ	b. Materials				LS		
	1	c. Transportation	on			LS		40
l		d. Profit				10.0%		\$0
1	9)	•	yments (eg. 2544'					
5336658	10		ment Payments (eg					• • • • • • • • • • • • • • • • • • • •
			ACTS & OTHER CO	ノヒ				\$0
	su	MMARY	Correspondent and the		dispusi			
1	11)	-	d Cost for Account	t 30.A.				\$50,565
	12		Account 30.A.A.		 	20%	and the second second was seen	\$10,113
	113	3) TOTAL FOR	R OFFICE					\$60,678

0.000,000	ASK WORKSHEET ROJECT: WILLAMETTE RIVER TEM	DEDAT	upr ~	NITOO	(100 iz-		
80000			UHEC	OHINC	L FEAS	ARIELLA	' STUL) Y
000000	ASK: Cougar Plans and Specific							
	FFICE: Civil and Environmental D	esign			HOUR			
.	DECT LABOR ACTIVITY	14	1 10		HOURS		F (C	
	RECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	eparation of the following specifications	-	 _		 			
	ctions:	· 	<u> </u>					<u> </u>
	Contractors Operations	-	2	24	40		2	
	Environmental Protection	 	2	40	! 		2	
	HTW and Solid Waste Mangmt	.	2	40			2	
	Roadways	ļ	1		40		2	
	Riprap	ļ	2		24		2	
F	Paving: Base & Leveling Coarse	ļ	1		24		2	
_ _		 						
	ntract Review	ļ	<u> </u>					
	0% Submittal	ļ	4	8	8	4	2	
6	0% Submittal		4	8	8	4	2	
9	0% Submittal		8	24	24	12	2	
В	COP	<u> </u>	8	24	24	12	2	
me	etings			16				
Qu	antity Computations		1			40	2	
As	sume 5 Plates		5			200	8	
								_
		0	40	184	192	272	30	0
			40	104	132	212	ာပ	U
000000		T			HOUR			
		HOURS Prin. Supr. Sr AE AE T/D Sec				_		
Α/	E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
——	<u> </u>	_	ļ					
								_
		 						
A /	E LABOR TOTALS	0	0	0	0	0	0	0
DE	MARKS			•				
1/1	IMARKS							
- S	site visit labor included in the above							

	BUD	GET WORKS	SHEET					26-Aug-94
	PROJE	ECT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIBILI	TY STUDY
	TASK:	4 7	Cougar Plans	and Specificat	ions		ORG CODE	
İ	OFFIC	E:	Electrical Design	gn			DD	
	DIREC	CT CHARGES:						
	1) a.	Labor			Amoun	it	Staff Averag	e \$ Amount
			Branch Chief	14	0	Hours	\$52	\$O
	1		Section Chief	13	45	Hours	\$44	\$1,980
	ļ		Architect/Engi	neer 12	198	Hours	\$37	\$7,326
			Architect/Engi	neer 11	418	Hours	\$34	\$14,212
)		Technician	7/ 9	396	Hours	\$26	\$10,296
			Secretary	5/6	24	Hours	\$17	\$408
			other		0	Hours	\$12	\$ 0
	Subto	tal In-House Di	irect Labor			· ·		\$34,222
ŀ	2) T	ech Indirect (E	st Rate:)			64.0%		\$21,902
ļ	3) G	eneral Admin (Est Rate:)			27.0%		\$9,240
	TOTAL	L LABOR CHA	RGES					\$65,364
	TRAVI	되다.						
*********		avel & Transpo	rtation					
	`	•		Per Deim	2	# Days	\$75	\$150
	}			Govt Vehicle	800	# Miles	\$0.25	\$200
				Flight		#Trips	\$250	\$O
				Auto Rental		#Times	\$35	\$O
	SUBT	OTAL TRAVEL						\$350
	OTHER	R EXPENSES:						
*********	5) Gr	raphics						\$250
	6) N	lisc Expenses						
				CADD	396	#Hours	\$35	\$13,860
				Materials		LS		\$100
	<u> </u>			Reproduction		LS		\$250
	SUBTO	OTAL OTHER E	EXPENSES			de ferie legi.		\$14,460
	CONT	RACTS & OTH	IER COE:					
	8) A	/E Contract Pa	yments		Amou	nt	Staff Averag	e \$ Amount
	а.	Labor	Principal		0	Hours	\$O	\$0
	;		Supervisor		0	Hours	\$O	\$0
		•	Senior Archite	ct/Engineer	0	Hours	\$O	\$ 0
]		Architect/Engi	neer	0	Hours	\$O	\$O
			Technician / D	rafter/CADD	0	Hours	\$O	\$O
			Secretary		0	Hours	\$O	\$ 0
			other		0	Hours	\$O	\$0
			labor subtotal					\$0
	b.	Materials				LS		
	c.	Transportation	on			LS		
	d.	Profit				10.0%		\$O
l	9) 0	ther Corps Pa	yments (eg. 25					
	1		_	(eg 1144's)				[
	10)	Other Governr						000000000000000000000000000000000000000
	10)		nent Payments ACTS & OTHER					\$0
	10)	OTAL CONTRA						\$0
	10) SUBTO	OTAL CONTRA		COE				\$80,174
	10) SUBTO SUMN 11) 1	OTAL CONTRA IARY Fotal Estimated	ACTS & OTHER	COE ount 30.A.		20%		

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	BUDGET WORKS	HEET					26-Aug-94
	PROJECT:	WILLAMETTE RIVE	R TEMPE	RATUR	E CONTRO	L FEASIBILI	TY STUDY
	TASK:	Cougar Plans and	Specificat	ions		ORG CODE	
L	OFFICE:	Mechanical Design				DF	
	DIRECT CHARGES:						
	1) a. Labor			Amour	-	taff Averag	e \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	21	Hours	\$44	\$924
		Architect/Engineer	12	0	Hours	\$37	\$0
		Architect/Engineer		628	Hours	\$34	\$21,352
		Technician	7/9	0	Hours	\$26	\$ 0
		Secretary	5/6	18	Hours	\$17	\$306
		other		0	Hours	\$12	\$O
	Subtotal In-House Di	irect Labor		-			\$22,582
	2) Tech Indirect (E	st Rate:)			64.0%		\$14,452
	3) General Admin (Est_Rate:)			27.0%		\$6,097
	TOTAL LABOR CHA	RGES		g literia			\$43,132
	TRAVEL:						
	4) Travel & Transpo	rtation	2000000				
ŀ	,		r Deim		# Days	\$75	\$0
1			Vehicle	300	# Miles	\$0.25	\$75
		2,500	Flight		#Trips	\$250	\$0
		Au	to Rental		#Times	\$35	\$0
				L			
	SUBTOTAL TRAVEL						\$75
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses						
	· ·		CADD	160	#Hours	\$35	\$5,600
		Ma	aterials		LS		\$500
		Repr	oduction		LS		\$500
	SUBTOTAL OTHER				<u> Alijuktu</u>		\$6,600
	CONTRACTS & OTH	IER COE:					
penetitii:	8) A/E Contract Pa			Amou	nt S	taff Averag	e \$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
İ		Supervisor		0	Hours	\$0	\$0
	· ·	Senior Architect/En	gineer	0	Hours	\$O	\$O
ľ		Architect/Engineer	_	0	Hours	\$0	\$0
1	1	Technician / Drafte	r/CADD	0	Hours	\$0	\$0
		Secretary		0	Hours	\$O	\$O
		other		0	Hours	\$0	\$O
1	1	labor subtotal		L	,	····	\$0
	b. Materials				LS		
	c. Transportation	on			LS		
	d. Profit				10.0%		\$0
	,	yments (eg. 2544's))				
Į		ment Payments (eg.					
	SUBTOTAL CONTRA			45.757.4			\$0
	SUMMARY			Author of			
		d Cost for Account	30.A				\$49,807
	§ '	Account 30.A.A.			10%		\$4,981
	13) TOTAL FOR			egi likeszenik			\$54,787
	113) IUIAL FUI	1 UFFICE	8881.5 6 9 10 9 70 98 0				, , , , , , , , , , , , , , , , , , ,

TASK WORKSHEET										
PROJECT: WILLAMETTE RIVER TEI	UPERAT	URE CO	NTRO	FEAS	IBILITY	/ STUE	ìΥ			
	ications									
OFFICE: Mechanical Design										
	<u> </u>	1 40				1 =				
K00000000	14		12		9		other			
		4								
	VILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY Cougar Plans and Specifications Mechanical Design									
TASK:										
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	ROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STASK: Cougar Plans and Specifications HOURS	2								
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				HOURS	3	<u></u>				
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	ΑE	T/D	Sec.	other			
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A/F LABOR TOTALS	0	0	0	0	0	0	0			
A/L LABOR TO TALO		1948 Y 1848	<u> </u>	10000 (1000)						
REMARKS										
CPS.)	(LW									

	BUDGET WORKS	HEET					29-Aug-94
	PROJECT:	WILLAMETTE I	RIVER TEMPER	RATURE	CONTR	OL FEASIBILIT	Y STUDY
	TASK:	Cougar Plans	and Specificati	ons		ORG CODE	
	OFFICE:	Structural and				DG	
	DIRECT CHARGES:						
-400109Q	1) a. Labor			Amount	t	Staff Average	\$ Amount
		Branch Chief	14		Hours	\$52	\$O
		Section Chief	13		Hours	\$44	\$8,932
		Architect/Engin			Hours	\$37	\$31,820
		Architect/Engir			Hours	\$34	\$11,152
		Technician	7/ 9		Hours	\$26	\$4,680
		Secretary	5/6		Hours	\$17	\$1,224
		other	. • -		Hours	\$12	\$O
	Subtotal In-House D	T				<u> </u>	\$57,808
	2) Tech Indirect (E			Г	64.0%		\$36,997
	3) General Admin (ş.	27.0%		\$15,608
	TOTAL LABOR CHA		at the engineering drawbarranch				\$110,413
	TRAVEL:	retrice		en jagelenderen			
	4) Travel & Transpo	ภาสแบก	Per Deim	4	# Days	\$75	\$300
			Govt Vehicle	_	# Days # Miles	\$0.25	\$100
		•				\$0.25	\$100
			Flight		#Trips #Times	\$35	\$0
			Auto Rental		# imnes	¥35	30
	SUBTOTAL TRAVEL	ranga Pulin Relices (Articles of the	. A A	sa grida saca	sign war		\$400
	OTHER EXPENSES:						
	5) Graphics						\$9,000
	6) Misc Expenses						10,000
	IOI IVIISC EXPENSES		CADD	136	#Hours	\$35	\$4,760
			Materials		LS	+35	\$5,000
			Reproduction		LS		\$20,000
	SUBTOTAL OTHER		g released to the second	- gap leggi topaci dalam			\$38,760
	CONTRACTS & OTH			Λ m a	nt.	Staff Average	\$ Amount
	8) A/E Contract P	•		Amou		Staff Average	\$ Amount \$460
	a. Labor	Principal			Hours	\$115	\$8,000
		Supervisor	-+/Engines		Hours	\$100	\$33,660
		Senior Architec	_		Hours	\$85	\$116,632
		Architect/Engir			Hours	\$61	
	Ī	Technician / D	ratter/CADD		Hours	\$66	\$60,720
		Secretary		-	Hours	\$29	\$464
1		other		0	Hours	\$O	\$0
ľ		labor subtotal					\$219,936
i '	b. Materials				LS		\$2,500
	c. Transportation	on		1	LS		\$1,000
	d. Profit			ļ	10.0%		\$22,344
1	IO1 O+L C C-	yments (eg. 25)					
1	1 .	·					1
	10) Other Govern	ment Payments					
	1 .			denergi irrik	Alle Tije, Heide		\$245,780
	10) Other Govern SUBTOTAL CONTRA SUMMARY	ACTS & OTHER	COE				
	10) Other Govern SUBTOTAL CONTRA SUMMARY		COE				\$395,353
	10) Other Govern SUBTOTAL CONTRA SUMMARY 11) Total Estimate	ACTS & OTHER	unt 30.A.	deserbitable	10%		

TASK WORKSHEET WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY PROJECT: TASK: Cougar Plans and Specifications Structural and Architectural Design OFFICE: HOURS DIRECT LABOR ACTIVITY 5/6 other review coordination, TM meetings A/E D.O. prepare/estimate/negotiate A/E D.O. coordinate/review agency corespondance/presentations site visit contractor questions, assemble notebooks operations coordination Engineer Considerations and Instructions for F. P. **HOURS** Prin. Supr. Sr AE AE T/D A/E LABOR ACTIVITY Sec. other management review coordination meetings 5 specification sections detailed design and analysis 128 1050 steel design details water control /diversion plan construction schedule prepare 23 CADD drawings calculate quantities site visit A/E LABOR TOTALS

REMARKS

- 2 A/E delivery orders under \$150k each will be used

	BUDGET WORKS	SHEET					26-Aug-94
	PROJECT:	WILLAMETTE RIVI	ER TEMPER	RATUR	E CONTRO	L FEASIBIL	ITY STUDY
	TASK:	Cougar Plans and	Specificati	ons		ORG CODE	
	OFFICE:	H & H Branch				DK	
	DIRECT CHARGES:					····I	
	1) a. Labor			Amour	it S	Staff Averag	ge \$ Amount
		Branch Chief	14	32	Hours	\$52	\$1,664
		Section Chief	13	0	Hours	\$44	\$0
		Architect/Engineer		0	Hours	\$37	\$0
		Architect/Engineer		0	Hours	\$34	\$0
ł		Technician	7/ 9	0	Hours	\$26	\$0
		Secretary	5/6	24	Hours	\$17	\$408
		other	0,0	0	Hours	\$12	\$0
	Subtotal In-House D				J. 10413	<u> </u>	\$2,072
	2) Tech Indirect (E				64.0%		\$1,326
	3) General Admin (27.0%		\$559
*****	TOTAL LABOR CHA		and the order of the August	-Recoon none en	127.070	Maria de Lacesa de la 1868.	\$3,958
*******		INGEO ::					1 00,000
	TRAVEL:						
	4) Travel & Transpo		5.2		1	475	40
		- '	er Deim	<u></u>	# Days	\$75	\$0
		Gov	t Vehicle	<u></u>	# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$0
		Αt	uto Rental	<u> </u>	#Times	\$35	\$0
******	SUBTOTAL TRAVEL	one can be seen to the second of the second of	. document Ancida		SSLICET SEED SEED S N. SEED		\$0
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses		CADD	О	#Hours	\$35	\$0
		N.A.	aterials		LS	<u> </u>	
			roduction		LS		
	SUBTOTAL OTHER I	· · · · · · · · · · · · · · · · · · ·	IOGGCTION	J. 25 1 3	es e vien pies		\$0
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	8) A/E Contract Pa		- 10 C	Amou	n+ C	Staff Averag	ge \$ Amount
		Principal		0	Hours	\$0	\$0
	a. Labor	•		0	Hours	\$0	\$0
	,	Supervisor Senior Architect/Er	naineer	0	Hours	\$0	\$0
	, , , , , , , , , , , , , , , , , , ,			 0	Hours	\$0	\$0
		Architect/Engineer Technician / Drafte		0	Hours	\$0	\$0
			si/CADD	<u></u>	Hours	\$0	\$0
		Secretary		10	1		\$0
		other		0	Hours	\$0	\$0
	h Massariala	labor subtotal			LS		\$0
	b. Materials				LS		
	c. Transportation)II			10.0%		\$0
1	d. Profit	yments (eg. 2544's	4		10.0 /6		
	l ·	nent Payments (eg.					
	10) Other Governr SUBTOTAL CONTRA			ji je kara ke	i og sagaran kali da da sa		\$0
		COLO G OTTLETOO	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	SUMMARY	d Cost for Account	30 A	agenagner at 100			\$3,958
	· ·		30.A.		10%		\$3,936
	12) Contingency, A 13) TOTAL FOR	Account 30.A.A.	sektijes tie koessilije kaa		[10/8]		\$4,353
	ia i ~< 100000 bitali I Δ(b) (-) b	4 (1) P P	ayreddor o'r felifiaddioleddid		::::::::::::::::::::::::::::::::::::::		

	BUDGET WOR	KSHEET					26-Aug-94
	PROJECT:	WILLAMETTE RIVI	ER TEMPE	RATUR	E CONTR	OL FEASIBILI	TY STUDY
	TASK:	Cougar P&S				ORG CODE	
	OFFICE:	Hydraulic Design				DL	
	DIRECT CHARGE	S:					
	1) a. Labor			Amour	nt	Staff Average	e \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	48	Hours	\$44	\$2,112
		Architect/Engineer	12	220	Hours	\$37	\$8,140
		Architect/Engineer	11	468	Hours	\$34	\$15,912
		Technician	7/ 9	80	Hours	\$26	\$2,080
		Secretary	5/6	40	Hours	\$17	\$680
		other		0	Hours	\$12	\$0
	Subtotal In-House						\$28,924
	2) Tech Indirect	(Est Rate:)			64.0%		\$18,511
	General Admi				27.0%		\$7,809
	TOTAL LABOR CH	IARGES					\$55,245
	TRAVEL:						
	4) Travel & Trans	sportation					
		Pe	er Deim	5	# Days	\$75	\$375
		Gov	t Vehicle	400	# Miles	\$0.25	\$100
			Flight		#Trips	\$250	\$ 0
		Αι	to Rental		#Times	\$35	\$ 0
20000000			· · ·				
	SUBTOTAL TRAV						\$475
	OTHER EXPENSES	<u>3:</u>					٠
	5) Graphics						\$0
	6) Misc Expense	es	CADD		#11	A25	62.000
		5 6	CADD aterials	80	#Hours LS	\$35	\$2,800
			roduction		LS		\$200 \$200
	SUBTOTAL OTHE		ioduction	· . wilder	LO Alimatikan		\$3,200
							30,2,0
	8) A/E Contract			^ ma	nt	Staff Avarage	a ¢ Amount
		•		Amou	Hours	Staff Average	\$ Amount \$0
	a. Labor	Principal Supervisor		10	Hours	\$0	\$0 \$0
	•	Senior Architect/Er	nainear	0	Hours	\$0	\$0
		Architect/Engineer	igineer	0	Hours	\$0	\$O
		Technician / Drafte	r/CADD	0	Hours	\$0	\$O
		Secretary	II/CADD	0	Hours	\$0	\$0
		other		0	Hours	\$0	\$0
		labor subtotal			J. louis	40	\$0
	b. Materials	labor Subtotui			LS		\$0
	c. Transporta	ation			LS		\$0
	d. Profit				10.0%		\$0
	j	Payments (eg. 2544's)				\$0
		rnment Payments (eg.					
	<u> </u>	RACTS & OTHER COI		alaig i	. January San		\$0
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	SUMMARY	ted Cost for Account	30.A	1.	rum Dindyski		\$58.920
	SUMMARY 11) Total Estima	ted Cost for Account	30.A.	* <u> </u>	5%		\$58,920 \$2,946

	TASK WORKSHEET							
		RIVER TEMPERAT	URE CO	NTROL	FEAS	IBILITY	STUD	Υ
	TASK: Cougar P&S							
	OFFICE: Hydraulic Desig	yn ,						
			·,		HOURS			
-	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	othe
_	Diversion			40	80	ļ	<u> </u>	
	Tower		<u> </u>	40	80	<u> </u>		
	Instrumentation Specification			20	80			
	Site Visits			20	20			
	Coordination and Meetings		24	_	40			l
	Review		<u> </u>	20	40		40	
	Instrumentation Drawing		24	40	40			
\perp								
	Char. and Hydro. Drawings				40	80		
	(Hydrology support)				40			
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	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
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	REMARKS							
								
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	BUDG	ET WORKS	HEET					26-Aug-94
	PROJE	CT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIBII	ITY STUDY
	TASK:		Cougar Plans	and Specificat	ions		ORG CODE	
	OFFICE		Geotechnical I	Engineering			CJ	
	DIREC	T CHARGES:						
	1) a.	Labor			Amoun		Staff Avera	ge \$ Amount
			Branch Chief	14	116	Hours	\$52	\$6,032
			STL	13	356	Hours	\$44	\$15,664
			Geol/Engr-Scie	en 12	694	Hours	\$37	\$25,678
			Geol/Engr-Scie	en 11	536	Hours	\$34	\$18,224
			Technician	7/9	280	Hours	\$26	\$7,280
			Secretary	5/6	54	Hours	\$17	\$918
			other		0	Hours	\$12	\$0
	Subtota	al In-House Di	rect Labor					\$73,796
	2) Te	ch Indirect (E	st Rate:)			64.0%		\$47,229
	3) Ge	neral Admin (E	Est Rate:)			27.0%		\$19,925
	TOTAL	LABOR CHAP	RGES	de je a skoji gadi. Pos	da jedini u			\$140,950
	TRAVE	L:						
	4) Tra	vel & Transpo	rtation	<u> </u>				
				Per Diem	4	# Days	\$75	\$300
				Govt Vehicle	2400	# Miles	\$0.25	\$600
				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
						·		
	SUBTO	TAL TRAVEL						\$900
		EXPENSES:						
		aphics						
	6) M	isc Expenses				1		
				CADD		#Hours	\$35	\$9,240
				Materials	1	LS		\$50
			V2511050	Reproduction		LS		
		TAL OTHER E						\$9,290
		ACTS & OTH						
		E Contract Pa	•		Amou		Staff Avera	
	a.	Labor	Principal			Hours	\$115	\$4,600
			Supervisor		0	Hours	\$100	\$0
			Senior Geol/En	-	0	Hours	\$85	\$0
			Geol/Engr-Scie		0	Hours	\$61	\$0
			Technician / D	rafter/CADD	0	Hours	\$66	\$0
			Secretary		0	Hours	\$29	\$0
			other		0	Hours	\$O	\$0
			labor subtotal					\$4,600
	b.	Materials				LS		
	C.	Transportatio	n			LS		4400
	d.	Profit				10.0%		\$460
		•	ments (eg. 25					
0000000			nent Payments				and the second second	A- 000
			CTS & OTHER	CUE				\$5,060
	SUMM		Tarak Ali II. je	er og grade	u Lithkati			
			Cost for Acco					\$156,200
			ccount 30.A.A	١.		10%		\$15,620
	13)	TOTAL FOR	OFFICE					\$171,820

	TASK WORKSH	EEI							
	PROJECT:	WILLAMETTE RIVER TEM	PERATI	URE CO)NTRO	FEAS	IBILITY	STUD	Y
	TASK:	Cougar Plans and Specific	ations						
anninos.	OFFICE:	Geotechnical Engineering							
						HOURS			
	DIRECT LABOR AC		14	13	12	11	9	5/6	other
	Preparation of SOV		ļ	2	2				
	Meetings & Coording		24	64	160	24		6	
	Review Existing Da			5					
	Design and Analysi	S	4	8		240			
	Preparation for IPR				8		16	8	
	IPR Presentation		2		4				
	Prepare 7 Specifica		28		184			40	
	Prepare 6 Contract		12		80	60	264		
	Calculate Quantities			5	16	24			
	Interim Reviews/Re	visions	34	88		68			
	Site Visits			24	16	16			
	ECIFP		8		24	24			
	Review Constr. Sch		4						
	Response to Reviev	v Comments		16	16	8			
			116	356	694	536	280	54	0
						HOURS	S		
	A/E LABOR ACTIVI	TY	Prin.	Supr.	Sr AE	ΑE	T/D	Sec.	other
	Slope Stability Revi	ew	40						
			<u> </u>	<u> </u>					
	A/E LABOR TOTAL	S	40	0	0	0	0	0	0
	A/E LABOR TOTAL	\$	40	0	0	0	0	0	0
		S	40	0	0	0	0	0	0
	A/E LABOR TOTAL	S	40	0	0	0	0	0	0

- 1	A/E delive	ery order u	ınder \$150K

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Architect/Engineer 11				<u> </u>			
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ROTHER COE: ract Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Architect/Engineer Archician / Drafter/CADD Secretary other labor subtotal als ortation Principal O Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 Hours \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTR	Secretary other labor subtotal on ayments (eg. 2544's) ment Payments (eg. 11	0	Hours Hours LS LS	\$0	\$0 \$0 \$0 \$0
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	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEI		URE CC	NTRO	FEAS	SIBILIT	/ STUE	ìΥ
	TASK: Cougar Plans and Specif OFFICE: Fish and Wildlife	ications						
	OFFICE: FISH and Wildlife	Т			HOUR	<u> </u>		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	internal coordination meetings		2	20		 		
	agency coordination meetings		2	60				
	develop measures to reduce fish impacts		2	40			<u> </u>	
	site visits		2	16		ļ <u>.</u>	 	
<u> </u>	Site Visits			10				
_		_						
	Cultural Resources							
	-write monitoring contract			40				
	-coordinate (SHPO, Native Americans,)			80				
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	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
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	A/E LABOR TOTALS	0	0	0	0	0	0	0

	REMARKS							
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Mo: I	nitoring costs of \$70K, curation costs of \$8K, a	ına mitiğ	auon C	วรเร 01	AC\\$	meiude	7U III D(JL.

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	BU	JDGET WORKS	SHEET					26-Aug-94
	PR	OJECT:	WILLAMETTE RIVE	R TEMPE	RATUR	E CONTR	OL FEASIBILI	TY STUDY
		SK:	Cougar Plans and S	Specificati	ons		ORG CODE	
	*******	FICE:	Technical Resource	as Branch			CR	
		RECT CHARGES:						
	1) ;	a. Labor			Amour	3	Staff Averag	
	ĺ		Branch Chief	14	0	Hours	\$52	\$0
			Section Chief	13	24	Hours	\$44	\$1,056
			Architect/Engineer		-	Hours	\$37	\$1,406
	ļ		Architect/Engineer		81	Hours	\$34	\$2,754
			Technician	7/9		Hours	\$26	\$10,712
			Secretary	5/6		Hours	\$17	\$884
	C	btotal In-House Di	Stay-In-School	3/4	60	Hours	\$12	\$720
		Tech Indirect (E				64.0%		\$17,532
	2) 3)	General Admin (·-			27.0%		\$11,220 \$4,734
		TAL LABOR CHA				[27.076]	telase v oderi s virrikle reddiffi.	\$33,486
******			NGLO					1 733/300
		AVEL:	rtotion					
	4)	Travel & Transpo		er Deim	0	# Days	\$75	\$0
				t Vehicle	0	# Miles	\$0.25	\$0
			dovi	Flight	-	#Trips	\$250	\$0
			Δι	ito Rental	 	#Times	\$35	\$0
			7.0		<u> </u>	,,,,,,,,,		
	SU	BTOTAL TRAVEL	aladik Tuliki i pakila budalen		OBBS BARDES			\$0
	ОТ	HER EXPENSES:						
2000 00000								
	5)	Graphics						\$0
	5) 6)	Graphics Misc Expenses						\$0
		•		CADD	0	#Hours	\$35	\$0 \$0
		•		aterials	0_	LS	\$35	\$0 \$0
	6)	Misc Expenses	Rep		0	2	\$35	\$0 \$0 \$5,000
	6)	•	Rep	aterials	0	LS	\$35	\$0 \$0
	6) SUI	Misc Expenses BTOTAL OTHER E	Repr EXPENSES IER COE:	aterials	0	LS LS		\$0 \$0 \$5,000 \$5,000
	6) SUI CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	Repress Services Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repress Repre	aterials	Amou	LS LS nt	Staff Averag	\$0 \$0 \$5,000 \$5,000 e \$ Amount
	6) SUI CO 8)	Misc Expenses BTOTAL OTHER E	Repr EXPENSES HER COE: ayments Principal	aterials	Amou	LS LS nt Hours	Staff Averag	\$0 \$0 \$5,000 \$5,000 e \$ Amount \$0
	6) SUI CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	Repr EXPENSES IER COE: ayments Principal Supervisor	aterials roduction	Amou 0 0	nt Hours	Staff Averag	\$0 \$5,000 \$5,000 \$5,000 e \$Amount \$0 \$0
	6) SUI CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa	Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive Action Repressive A	aterials roduction	Amou 0 0	nt Hours Hours	Staff Averag \$0 \$0 \$0	\$0 \$5,000 \$5,000 e \$Amount \$0 \$0 \$0
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	6) CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUI CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUI CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction ngineer er/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) CO 8)	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit Other Corps Pay	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction ngineer er/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) CO 8) 9)	b. Materials c. Transportation d. Profit Other Corps Par	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction ngineer er/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) CO 8) 9) 10)	b. Materials c. Transportation d. Profit Other Coverns BTOTAL OTHER E	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction ngineer er/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	9) 10) SUI	Misc Expenses BTOTAL OTHER E NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit Other Corps Pav) Other Governm BTOTAL CONTRA	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction ngineer er/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) CO 8) 9) 10)	b. Materials c. Transportation d. Profit Other Corps Pare Other Government of the Contract Other Government of the Contract Other Government of the Contract Other Government of the Contract Other Government of the Contract Other Government of the Contract Other Government of the Contract Other Government of the Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract	Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Representation Repres	aterials roduction ngineer er/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER	TEMPERAT	URE CO	ONTRO	L FEAS	BILITY	STUC	ΣY
	TASK: Cougar Plans and Spe							
***********	OFFICE: Technical Resources	Branch						
			T		HOURS		,	
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	3/4
	CR							
	3 A/E delivery orders		24		81	396	24	60
	ICΩ			-		<u> </u>	ļ	
	BCOP (see also PE-D, CT, CO)		<u> </u>	30		<u> </u>	28	
	BCOF (see also FL-D, C1, CO)		 	30				
	СР		<u> </u>			<u> </u>		!
	BCOP (VE)		<u> </u>	8				
	budget management		1			16		
			<u> </u>				l	
		0	24	38	81	412	52	60
		100001 10000-						
					HOURS	3		
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.				Sec.	other
	A/E LABOR ACTIVITY A/E LABOR TOTALS	Prin.	Supr.				Sec.	other

FI	A	٨	D	v	c
 		4	-		

- 3 A/E delivery orders under \$150K each will be supported

	BUDGET	WORKSHEET				9-Nov-94
	PROJECT:	WILLAMETTE	RIVER TEMPER	RATURE CONTE	OL FEASIBILIT	Y STUDY
	TASK:	Cougar P&S			ORG CODE	
	OFFICE:	Real Estate			BU	
	DIRECT CH	HARGES:				
	1) a. Labo	or		Amount	Staff Average	\$ Amount
		DivisionCh.	13	26 Hours	\$42	\$1,092
		Branch Ch.	12	100 Hours	\$36	\$3,550
		Attorney	13	100 Hours	\$39	\$3,850
				Hours	\$O	\$O
		Technician	11	24 Hours	\$33	\$780
		Secretary	5/6	24 Hours	\$17	\$396
		other		0 Hours	\$0	\$ 0
	Subtotal In-	House Direct Labor				\$9,668
	2) Tech I	ndirect (Est Rate:)		68.0%		\$6,574
	3) Genera	I Admin (Est Rate:)		18.0%		\$1,740
	TOTAL LAE	OR CHARGES				\$17,982
	TRAVEL:					
	4) Travel 8	Transportation				
			Per Deim	0 # Days	\$75	\$0
			Govt Vehicle	800 # Miles	\$0.25	\$200
			Flight	#Trips	\$250	\$O
			Auto Rental	#Times	\$35	\$O
	SUBTOTAL	TRAVEL				\$200
	OTHER EXP	PENSES:				
	5) Graphic	es				\$0
	6) Misc E	xpenses				
			CADD	0 #Hours	\$35	\$O
			Materials	LS		\$0
6000000			Reproduction	LS		\$18
		OTHER EXPENSES				\$18
		S & OTHER COE:				
	8) A/E Co	ontract Payments		Amount	Staff Average	\$ Amount
	a. Lab	•		0 Hours	\$0	\$ 0
		Supervisor		0 Hours	\$0	\$O
		Senior Archite	-	0 Hours	\$O	\$O
		Architect/Eng		0 Hours	\$0	\$0
		Technician / [Orafter/CADD	0 Hours	\$0	\$0
		Secretary		0 Hours	\$0	\$O
		other		0 Hours	\$O	\$0
		labor subtotal				\$0
		erials		LS		\$0
		nsportation		LS		\$0
	d. Prof		= 4.41-1	10.0%		\$O
		Corps Payments (eg. 25				\$0
		GONTRACTS & OTHER				\$0
		CONTRACTS & OTHER	n CUE			90
	SUMMARY					
		Estimated Cost for Acc		1 450/		\$18,200
appending.		ngency, Account 30.A.	Α.	10%		\$1,800
	13) TOT	AL FOR OFFICE				\$20,000

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMP TASK: Cougar P&S OFFICE: Real Estate	PERATI	JRE CC	NTRO	FEAS	IBILITY	STUD	Y
	DIRECT LABOR ACTIVITY	13	12	13	HOURS	11		
	Negotiate and develop MOU with Forest Service	26		100		24	5/6 24	other
								
							 	
<u> </u>								
<u> </u>								
			<u> </u>			<u></u>	-	
<u> </u>								
<u> </u>		26	100	100	0	24	24	0
20000000					Bear conserved		- Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commission Commissio	
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	HOURS	T/D	Sec.	other
	A/L LABOR ACTIVITI	1 11111.	очрі.	31 AL	AL	170	360.	Other
<u> </u>							<u> </u>	
]	
_								
					-			
50000000	A/E LABOR TOTALS							
	DELLA DIVO	0	0	0	0	0	0	0
	REMARKS							
								į
	CPS.)	XI W -						

BASEI	LINE S	SCOP	E OF	WOR	K.			
PROJECT:						DATE	PREPARED:	
Cougar Temp	erature C	Control				DAIL	8/29/94	
SUBPRODUCT TITLE:						SUBPRO	ODUCT #/WBS ID:	
Engineering I	Ouring Co	g Construction				MTCCWI		
TECHNICAL MANAGER:				CT/STU	DY MAN	AGER:	OFFICE OBS:	
Karl Swanson	NPP-P	E-DS	Doug Cl	arke			NPP-PM	
- PMP Worksheet (summary, tot - Specific product outline (plates - Individual office Budget and T	tal cost b	y office))		NLA			
UPWARD REPORTED	%	INTER	NAL			%	Τ	
MILESTONES DATE	OMP	MILES	STONES		DATE	COMP	COMMITMENT TO	
							SCOPE, BUDGET, AND SCHEDULE:	
	FY98	FY99	FY00	FY01	FY02	TOTAL		
CONSTRUCTION COST								
	0.2	0.3			NGENCY R. COST 0.1			
BASELINE ALLOCATION *	124					619		
BASELINE TIBLE CATTION			•		NGENC	88 707		
Submitted:			Approv	ed:				
(Technical Manager)	(Da	ate)		(Projec	ct\Study M	Tanager)	(Date)	

^{*} Allocation does not include Contingency, and is the approved budget amount.

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS Swenson

TASK: Cougar Engineering During Construction

	Office	Org			COSTS			
Organization	Symbol	Code	Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$22,003	\$400	\$150	\$0	\$2,255	\$24,809
Design Branch	PE-D	DB	\$10,834	\$0	\$0	\$0	\$1,083	\$11,917
Civil/Land. Design	PE-DC	DC	\$21,881	\$125	\$1,680	\$0	\$4,737	\$28,423
Electrical Design	PE-DE	DD	\$31,821	\$2,350	\$2,280	\$0	\$7,290	\$43,741
Mechanical Design	PE-DM	DF	\$6,066	\$150	\$1,560	\$0	\$778	\$8,554
Struct/Arch Des.	PE-DS	DG	\$146,180	\$2,000	\$18,075	\$0	\$33,251	\$199,506
H & H Branch	PE-H	DK	\$8,450	\$0	\$0	\$0	\$845	\$9,295
Hydraul. Design	PE-HD	DL	\$37,933	\$2,375	\$0	\$0	\$2,015	\$42,323
Res. Regulation	PE-HR	DR	\$17,618	\$0	\$500	\$0	\$3,624	\$21,741
Hydrology	PE-HY	DN	\$33,830	\$150	\$200	\$0	\$6,836	\$41,016
Geotech Branch	PE-G	CJ	\$149,064	\$8,975	\$3,550	\$0	\$16,159	\$177,748
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$0	\$0
Fish & Wldlf	PE-RR	EN	\$61,915	\$6,000	\$0	\$10,000	\$7,791	\$85,706
Environmental	PE-RP	EM	\$O	\$0	\$O	\$0	\$0	\$0
Tech. Branch	PE-T		\$1,497	\$0	\$500	\$0	\$200	\$2,197
Project	OP-V	JB	\$O	\$0	\$0	\$O	\$0	\$0
Real Estate	RE-AP	BU	\$8,575	\$200	\$25	\$0	\$1,200	\$10,000
Contract Admin	CT-C	NG	\$O	\$0	\$0	\$0	\$0	\$0
Contract Procuremen	CT-P	ND	\$O	\$0	\$0	\$0	\$0	\$0
Construction	CO-SC	FE	\$O	\$O	\$O	\$0	\$0	\$0
IOTALS			\$557,665	\$22,725	\$28,520	\$10,000	\$88,065	\$706,975

	BUDGET WORKS	SHEET					29-Aug-94
	PROJECT:	WILLAMETTE	RIVER TEMPER	RATUR	E CONTRO	DL FEASIBII	JTY STUDY
	TASK:	Cougar EDC				ORG CODE	
	OFFICE:	Cost Engineer	ing Branch			CE	
	DIRECT CHARGES:						
	1) a. Labor			Amoun	t	Staff Avera	ge \$ Amount
		Branch Chief	14	0	Hours	\$53	\$ 0
		Branch Chief	13	72	Hours	\$48	\$3,456
		Cost Engineer	12	192	Hours	\$42	\$8,064
		Cost Engineer	11	0	Hours	\$36	\$0
		Technician	7/ 9	0	Hours	\$30	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$0	\$0
	Subtotal In-House D	irect Labor					\$11,520
	2) Tech Indirect (E	Est Rate:)			64.0%		\$7,373
	3) General Admin (Est Rate:)			27.0%		\$3,110
	TOTAL LABOR CHA	RGES					\$22,003
	TRAVEL:						
	4) Travel & Transpo	ortation					
			Per Deim	4	# Days	\$75	\$300
			Govt Vehicle	400	# Miles	\$0.25	\$100
			Flight		#Trips	\$250	\$O
	İ		Auto Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$400
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses				_		
			CADD	0	#Hours	\$35	\$0
			Materials		LS		\$50
			Reproduction		LS		\$100
	SUBTOTAL OTHER	EXPENSES					\$150
	CONTRACTS & OTH	IER COE:					
	8) A/E Contract Pa	ayments		Amou	nt	Staff Avera	ge \$ Amount
	a. Labor	Project Manag	ger	0	Hours	\$0	\$0
		Senior Cost E	ngineer	0	Hours	\$O	\$O
		Cost Engineer	•	0	Hours	\$O	\$O
		Junior Cost E	ngineer	0	Hours	\$O	\$ O
		Engineering T	ech	0	Hours	\$0	\$ 0
l		Secretary		0	Hours	\$ 0	\$0
l		labor subtotal		0	Hours	\$O	\$O
		labor subtotal			-		\$0
	b. Materials				LS		\$0
	c. Transportation	on			LS		\$0
	d. Profit				10.0%		\$0
	9) Other Corps Pa	yments (eg. 25	544's)				
l	Idos Oakar Carran	ment Payments	s (eg. 1144's)				
l	10) Other Govern	,				S. Milletta de a dispositiva de la perioria-	
	SUBTOTAL CONTRA		COE				\$0
			R COE				
	SUBTOTAL CONTRA						\$22,553
	SUBTOTAL CONTRA SUMMARY 11) Total Estimate	ACTS & OTHER	ount 30.A.		10%		

	TASK WORKSHEET								
	PROJECT: WILLAMETTE RIVER TEM	PERAT	URE CO	ONTRO	L FEA	SIBILIT	Y STUI	ΣY	
	TASK: Cougar EDC								
99390000	OFFICE: Cost Engineering Branch								
					HOURS				
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other	
	Review		16						
	Coordination		16						
	Contract Modifications Plans & Spec		16	24					
	MCACES Costs			40					
	Labor, Equipment & Material Costs			32					
	Contract Mod/Claim Impact CO support		16	32					
	Construction Site Inspection(s)		16 8	32 32					
	Support to Construction Division		0	32					
				-					
		0	72	192	0	0	0	0	
		Prin. PM Sr CE CE Jr CE Tech							
	A/E LABOR ACTIVITY	Prin.	PM	Sr CE	CE	Jr CE	Tech	Sec	

								<u> </u>	
					<u> </u>				
	A/E LABOR TOTALS	0	0	0	0	0	0.	0	
	A/E LABOR TOTALS	<u> </u>			<u> </u>		J	Y Y	
	REMARKS								
								1	
								1	

	BUDGET WORK	CSHEET					29-Aug-94
	PROJECT:	WILLAMETTE RIVER	TEMPE	RATUR	E CONTR	OL FEASIBILIT	
	TASK:	Cougar EDC				ORG CODE	
	OFFICE:	Design Branch				DB	
	DIRECT CHARGES	3:					
ļ	1) a. Labor			Amour	•	Staff Average	\$ Amount
		Branch Chief	14	96	Hours	\$52	\$4,992
		Section Chief	13	0	Hours	\$44	\$O
ĺ		Architect/Engineer		0	Hours	\$37	\$0
		Architect/Engineer		0	Hours	\$34	\$O
		Technician	7/9	0	Hours	\$26	\$O
		Secretary	5/6	40	Hours	\$17	\$680
		other		0	Hours	\$12	\$O
l	Subtotal In-House						\$5,672
	2) Tech Indirect	· ·			64.0%		\$3,630
	General Admin				27.0%		\$1,531
	TOTAL LABOR CH	ARGES					\$10,834
	TRAVEL:						
	4) Travel & Transp	oortation					
		Per	Deim		# Days	\$75	\$O
		Govt	Vehicle		# Miles	\$0.25	\$0
		(Flight		#Trips	\$250	\$O
		Auto	Rental		#Times	\$35	\$O
50000000							
	SUBTOTAL TRAVE						\$0
	OTHER EXPENSES	1					
	5) Graphics	•					
	6) Misc Expense:				l	 	
			CADD	0	#Hours	\$35	\$0
			erials		LS		
	SUBTOTAL OTHER		duction	0.0000000000000000000000000000000000000	LS		
							\$0
	CONTRACTS & OT				_		
	8) A/E Contract I	•		Amou	1	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$O
		Supervisor		0	Hours	\$0	\$O
		Senior Architect/Engi	ineer		Hours	\$0	\$0
		Architect/Engineer	0 4 D D		Hours	\$0	\$0
		Technician / Drafter/	CADD	-	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$0
ľ		other		0	Hours	\$O	\$0
	h	labor subtotal					\$0
	b. Materials	•			LS		\$0
	c. Transportatd. Profit	1011			LS 00/		\$0
				ı	10.0%		\$0
		ayments (eg. 2544's)	4.4.41=\				
		ment Payments (eg. 1	144 S)				
		ACTS & OTHER COE					\$0
	SUMMARY	10 - 1			_		
- 1		ed Cost for Account 30).A.		4604		\$10,834
		Account 30.A.A.			10%	2000	\$1,083
	13) TOTAL FO	K OFFICE					\$11,917

	BUDGET WORK:	SHEET					29-Aug-94
	PROJECT:	WILLAMETTE RIVER	TEMPER	RATUR	E CONTRI	OL FEASIBILITY	STUDY
	TASK:	Cougar EDC				ORG CODE	
	OFFICE:	Civil and Environmen	ntal Desig	gn		DC	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt	Staff Average	\$ Amount
l		Branch Chief	14	0	Hours	\$52	\$O
		Section Chief	13	32	Hours	\$44	\$1,408
		Architect/Engineer	12	120	Hours	\$37	\$4,440
		Architect/Engineer	11	104	Hours	\$34	\$3,536
l		Technician	7/9	64	Hours	\$26	\$1,664
		Secretary	5/6	24	Hours	\$17	\$408
		other		0	Hours	\$12	\$O
	Subtotal In-House D	irect Labor					\$11,456
	2) Tech Indirect (I	Est Rate:)			64.0%		\$7,332
	3) General Admin	(Est Rate:)			27.0%		\$3,093
	TOTAL LABOR CHA	RGES					\$21,881
	TRAVEL:						
	4) Travel & Transpo	ortation	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t				
		Per	Deim		# Days	\$75	\$O
		Govt	Vehicle	500	# Miles	\$0.25	\$125
			Flight		#Trips	\$250	\$0
		Auto	o Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$125
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses		0400	- 40	I ,,, ,		
			CADD	48	#Hours	\$35	\$1,680
			erials		LS LS		
	SUBTOTAL OTHER		duction		LO		\$1,680
6000000 40000000							91,030
	CONTRACTS & OTI						
	8) A/E Contract P	•		Amou		Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$O	\$0
	•	Supervisor		0	Hours	\$0	\$0
		Senior Architect/Eng	ıneer	0	Hours	\$0	\$0
		Architect/Engineer	(C 4 D D	0	Hours	\$0	\$0
		Technician / Drafter/	CADD	0	Hours	\$O \$O	\$0
		Secretary		0	Hours	\$0	\$0 \$0
		other		0	Hours	\$0	\$O
	h	labor subtotal			10	ļ	\$0 \$0
	b. Materials	nn			LS LS	1	\$0 \$0
	c. Transportation	ווט			10.0%	ļ	\$0 \$0
	d. Profit	vmonte (on 2544)-\			10.0%	ŀ	₹U
	•	yments (eg. 2544's)	144'0\				
		ment Payments (eg. 1	144 5)				\$0
		AUIS & UITER CUE					
	SUMMARY	10					200 000
	*	d Cost for Account 30	J.A.		200/		\$23,686
. 1	12) Contingency, A	Account 30.A.A.			20%		\$4,737
6200000	13) TOTAL FO	موجر ومرسوح					\$28,423

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERATI	URE CO	ONTRO	L FEAS	BILITY	STUE	γ
	TASK: Cougar EDC OFFICE: Civil and Environmental De	retan						
	OFFICE: Civil and Environmental De	Sign			HOURS	<u></u> S		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Site Visits		16	32	24		4	
		<u> </u> '	<u> </u>	<u> </u>			<u> </u>	
	Review of Submittals/ VE		8	40	40	16	4	
	Modifications Preparation		8	40	40	40	16	
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						<u> </u>	
	Pre-Constr. Meeting			8				
				<u> </u>			<u> </u>	
	As-Builts	 		<u> </u>	 	8		
		 						
						<u> </u>		
		0	32	120	104	64	24	0
outaine								
	A/E LABOR ACTIVITY	D-::	Ic.,,nr		HOURS AE		16:3	1 -4hor
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AC	T/D	Sec.	other
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		 	<u> </u>		<u> </u>	 _	 	
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	A/E LABOR TOTALS	0	0	0	0	0	0	0
	A/E ENDON TO THE					***************************************		
	REMARKS							
	REWIANG							
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	BUDGET WORK	SHEET				29-Aug-94
	PROJECT:	WILLAMETTE RIVER	TEMPE	RATURE CONTI	ROL FEASIBILIT	Y STUDY
	TASK:	Cougar EDC			ORG CODE	
	OFFICE:	Electrical Design			DD	
	DIRECT CHARGES:					
	1) a. Labor			Amount	Staff Average	\$ Amount
		Branch Chief	14	0 Hours	\$52	\$ 0
		Section Chief	13	26 Hours	\$44	\$1,144
		Architect/Engineer 1		128 Hours	\$37	\$4,736
]	Architect/Engineer 1	11	248 Hours	\$34	\$8,432
		Technician	7/ 9	72 Hours	\$26	\$1,872
ľ		Secretary	5/6	28 Hours	\$17	\$476
		other		0 Hours	\$12	\$ 0
	Subtotal In-House D					\$16,660
	2) Tech Indirect (I	·		64.0%		\$10,662
	3) General Admin	<u> </u>		27.0%		\$4,498
	TOTAL LABOR CHA	RGES				\$31,821
	TRAVEL:					
	4) Travel & Transpo	ortation				
		Per	Deim	6 # Days	\$100	\$600
		Govt	Vehicle	2400 # Miles	\$0.25	\$600
		F	Flight	2 #Trips	\$500	\$1,000
		Auto	Rental	1 #Times	\$150	\$150
00000000			-			
	SUBTOTAL TRAVEL					\$2,350
	OTHER EXPENSES:					
	5) Graphics					\$250
	6) Misc Expenses			40 1/11		
			CADD	48 #Hours	\$35	\$1,680
			erials duction	LS		\$100
	SUBTOTAL OTHER		Juction	LS		\$250 \$2,280
3000000						\$2,260
	CONTRACTS & OTH					
	8) A/E Contract Pa	•		Amount	Staff Average	\$ Amount
	a. Labor	Principal		0 Hours	\$0	\$0
	,	Supervisor		0 Hours	\$0	\$0
		Senior Architect/Engi Architect/Engineer	neer		\$0	\$0
		Technician / Drafter/(~ A D.D.		\$0	\$O
		Secretary	CAUD	0 Hours 0 Hours	\$0 \$0	\$0 \$0
		other		0 Hours	\$0 \$0	\$0 \$0
		labor subtotal		nours	\$0	
	b. Materials	านมาเ อนมเบเสเ		LS		\$0
	c. Transportation	nn		LS	-	\$0
	d. Profit	/II		10.0%		\$0
		yments (eg. 2544's)		10.0%		70
		nent Payments (eg. 11	1 <i>44</i> 'e\			
	SUBTOTAL CONTRA		· · · · · ›/			\$0
	SUMMARY					
400000		d Cost for Account 30	.A.			\$36,451
	•	Account 30.A.A.		20%		\$7,290
	13) TOTAL FOR					\$43.741
	.J, ICIALIO	· UIIIUL				742//41

	TASK WORKSHE	ET				_			
	PROJECT:		PERAT	URE CO	ONTRO	L FEAS	IBILITY	STU	ЭΥ
	TASK WORKSHEET								
	ON NOE.	LIECTRICAL DESIGN	T T			HOURS	 }		
	DIRECT LABOR ACTI	VITY	14	13				5/6	other
	Project Review			6					
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		DUOTIS	<u> </u>		1		ļ		
		ction Office	 	2			24		
	<u> </u>							<u> </u>	
	O&M Manual				24	80		4	<u> </u>
	As-Built Drawings				8	24	40	8	
		······································	Managara 1980	1 Shillianna ni si			***************************************		
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SS0000000						IOURG			
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300000000	A/E EADON AOTON		' ' ' ' '	oupr.	31 AL	<u> </u>	1/0	360.	Other
			-						
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	A/E LABOR TOTALS		0	0	0	0	0	0	0
	A/E LABOR TOTALS				0	·		U	
	DEMARKS	<u> </u>	····		<u></u>				
<u> </u>	REMARKS								

	BUDGET WORKS	SHEET				29-Aug-94
	PROJECT:	WILLAMETTE	RIVER TEMPE	RATURE C	ONTROL FEASI	BILITY STUDY
	TASK:	Cougar EDC			ORG COD	DE
	OFFICE:	Mechanical De	esign		DF	
	DIRECT CHARGES:					
	1) a. Labor			Amount	Staff Ave	erage \$ Amount
		Branch Chief	14	O Ho	urs \$52	\$0
		Section Chief	13	4 Ho	urs \$44	\$176
		Architect/Engi	neer 12	O Ho	urs \$37	\$0
		Architect/Engi	neer 11	72 Ho	urs \$34	\$2,448
		Technician	7/9	16 Ho	urs \$26	\$416
		Secretary	5/6	8 Ho	urs \$17	\$136
		other		O Ho	urs \$12	\$0
	Subtotal In-House D	irect Labor				\$3,176
	2) Tech Indirect (E	Est Rate:)		64.	.0%	\$2,033
	3) General Admin (Est Rate:)		27.	.0%	\$858
	TOTAL LABOR CHA	RGES				\$6,066
	TRAVEL:					
********	4) Travel & Transpo	ortation	· · · · · · · · · · · · · · · · · · ·			
	,		Per Deim	# 0	Days \$75	\$0
			Govt Vehicle		/liles \$0.25	
			Flight	#Tı	rips \$250	
			Auto Rental		mes \$35	\$0
					<u> </u>	
	SUBTOTAL TRAVEL					\$150
	OTHER EXPENSES:					
	5) Graphics					
	6) Misc Expenses					
			CADD	16 #H	ours \$35	\$560
			Materials	LS		\$500
			Reproduction	LS		\$500
	SUBTOTAL OTHER I	EXPENSES				\$1,560
	CONTRACTS & OTH	IER COE:				
	8) A/E Contract Pa	ayments		Amount	Staff Ave	rage \$ Amount
	a. Labor	Principal		O Ho	urs \$0	\$0
		Supervisor		O Ho	urs \$0	\$O
		Senior Archite	ct/Engineer	O Ho	urs \$0	\$0
		Architect/Engir	neer	O Ho	urs \$0	\$0
		Technician / D	rafter/CADD	O Ho		\$0
		Secretary		O Ho		\$0
		other			urs \$0	\$0
		labor subtotal				\$0
	b. Materials			LS		\$0
	c. Transportation	on		LS		\$0
	d. Profit			10.	.0%	\$0
	9) Other Corps Pa					
		ment Payments				
	SUBTOTAL CONTRA	ACTS & OTHER	COE			\$0
	SUMMARY					
	11) Total Estimated	d Cost for Acco	unt 30.A.			\$7,776
	12) Contingency, A	Account 30.A.A		10	0%	\$778
	1 = 1					

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY TASK: Cougar EDC OFFICE: Mechanical Design	STUD	
OFFICE: Mechanical Design	999999999	Y
HOURS	 ,	
DIRECT LABOR ACTIVITY 14 13 12 11 9		other
review submitals and VE 24	4	<u> </u>
as-builts 8 16		
O&M manual supplement 8	2	
site visit 16 modifications 4 16		
modifications 4 16	2	
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HOURS		- 41
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A/E LABOR TOTALS 0 0 0 0 0	0	0
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REMARKS		

	CSHEET			29-Aug-94
PROJECT:	WILLAMETTE RIVER TEMPE	RATURE CONTE	ROL FEASIBILITY	STUDY
TASK:	Cougar EDC		ORG CODE	
OFFICE:	Structural and Architectural	Design	DG	
DIRECT CHARGES	S:			
1) a. Labor		Amount	Staff Average	\$ Amount
	Branch Chief 14	0 Hours	\$52	\$O
	Section Chief 13	320 Hours	\$44	\$14,080
	Architect/Engineer 12	672 Hours	\$37	\$24,864
	Architect/Engineer 11	702 Hours	\$34	\$23,868
	Technician 7/9	465 Hours	\$26	\$12,090
	Secretary 5/6	96 Hours	\$17	\$1,632
	other	0 Hours	\$12	\$O
Subtotal In-House	Direct Labor			\$76,534
2) Tech Indirect	(Est Rate:)	64.0%		\$48,982
3) General Admir		27.0%		\$20,664
TOTAL LABOR CH		127.076		\$146,180
TRAVEL:				
4) Travel & Trans	•	16 4 5-	AZE	A1 000
	Per Deim	16 # Days	\$75	\$1,200
	Govt Vehicle		\$0.25	\$800
	Flight	#Trips	\$250	\$0
	Auto Rental	#Times	\$35	\$ 0
SUBTOTAL TRAVI	-			\$2,000
				\$2,000
OTHER EXPENSES	:			
5) Graphics				\$0
6) Misc Expense				
	CADD	345 #Hours	\$35	\$12,075
	Materials	ıe		
		LS		
	Reproduction	LS		\$5,000
SUBTOTAL OTHER	· · · · · · · · · · · · · · · · · · ·			\$5,000
SUBTOTAL OTHER	REXPENSES			\$5,000
	R EXPENSES THER COE:		Staff Average	\$5,000
CONTRACTS & O	R EXPENSES THER COE:	LS	Staff Average	\$5,000 \$18,075
CONTRACTS & OT	R EXPENSES THER COE: Payments	LS Amount		\$5,000 \$18,075 \$ Amount
CONTRACTS & OT	R EXPENSES FHER COE: Payments Principal Supervisor	LS Amount O Hours	\$0	\$5,000 \$18,075 \$ Amount \$0
CONTRACTS & OT	R EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer	Amount O Hours O Hours O Hours	\$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0
CONTRACTS & OT	R EXPENSES FHER COE: Payments Principal Supervisor	Amount O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0
CONTRACTS & OT	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0
CONTRACTS & OT	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
CONTRACTS & OT	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other	Amount O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
8) A/E Contract a. Labor	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
B) A/E Contract a. Labor b. Materials	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transporta d. Profit	Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transporta d. Profit 9) Other Corps F	Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transporta d. Profit 9) Other Corps F	Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transporta d. Profit 9) Other Corps F	Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal Payments (eg. 2544's) Inment Payments (eg. 1144's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transporta d. Profit 9) Other Corps F 10) Other Gover SUBTOTAL CONTI	Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal Payments (eg. 2544's) Inment Payments (eg. 1144's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$18,075 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transporta d. Profit 9) Other Corps F 10) Other Gover SUBTOTAL CONTI	R EXPENSES FHER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal tion Payments (eg. 2544's) ment Payments (eg. 1144's) RACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERAT	URE CO	NTRO	L FEAS	BILIT	/ STUE	ìΥ
1	TASK: Cougar EDC							
l	OFFICE: Structural and Architectura	al Desig	nę					
					HOURS	3		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	coordination, TM (4 years)		48	240	144		24	
	answer RFI's (requests for information)			8			24	
	review contractor proposals/ VE		4	32		40		
	review contractor design features			8		40		
	review shop drawings			8	40	40	24	
	change order review board (6d/yr)		192					
	agency coord. mtgs. (6/yr)			120				
	agency corespondance/presentations		8					
	site visits, shop visits		64					
	pre-construction conference			8				
	contract modifications		4	16		240	24	
	punchlist/completion inspections			16				
	as-built 23 drawings				70	105		
	O&M manual coordination			8				
		0	320	672	702	465	96	0
				1	HOURS	;		
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	ΑE	T/D	Sec.	other
								_
								<u> </u>
			Sieces		Constant		and the second second	
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS							

	BUDGET WORK	SHEET				29-Aug-94
	PROJECT:	WILLAMETTE RIVER TO	MPERATUR	E CONTRO	OL FEASIBILIT	Y STUDY
	TASK:	Cougar EDC			ORG CODE	
	OFFICE:	H & H Branch			DK	
	DIRECT CHARGES					
	1) a. Labor		Amour	nt	Staff Average	\$ Amount
		Branch Chief 1	4 72	Hours	\$52	\$3,744
		Section Chief 1	3 0	Hours	\$44	\$O
		Architect/Engineer 12	0	Hours	\$37	\$0
		Architect/Engineer 11	0	Hours	\$34	\$O
		Technician 7/	9 0	Hours	\$26	\$0
		Secretary 5	6/6 40	Hours	\$17	\$680
		other	0	Hours	\$12	\$0
	Subtotal In-House D	Direct Labor	<u> </u>	3		\$4,424
	2) Tech Indirect (64.0%		\$2,831
	3) General Admin			27.0%		\$1,194
	TOTAL LABOR CHA			=		\$8,450
	TRAVEL:					1
	4) Travel & Transp	ortation				
	Traver & Trainsp	Per De	im	# Days	\$75	\$0
		Govt Ve		# Days # Miles	\$0.25	
		Govi ve Flig		4	\$250	\$0
		_		#Trips		\$0
		Auto R	ental [#Times	\$35	\$0
	SUBTOTAL TRAVE					\$0
10000000 10000000000000000000000000000	OTHER EXPENSES:					1
	5) Graphics					ř .
	5) Graphics					
	5) Graphics6) Misc Expenses] #Uors	625	\$0
	•	CAI		#Hours	\$35	\$0
	•	CAI Materia	als	LS	\$35	\$0
	6) Misc Expenses	CAI Materia Reproduc	als	4	\$35	
	6) Misc Expenses SUBTOTAL OTHER	CAI Materia Reproduc EXPENSES	als	LS	\$35	\$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI	CAI Materia Reproduc EXPENSES HER COE:	als	LS LS		50
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduc EXPENSES HER COE: ayments	Amou	LS LS nt	Staff Average	\$ Amount
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI	CAI Materia Reproduc EXPENSES HER COE: ayments Principal	Amou	LS LS nt S Hours	Staff Average	\$ Amount
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor	Amou O O	LS LS nt S Hours	Staff Average \$0 \$0	\$ Amount \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduct EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine	Amou O er O	LS LS nt S Hours Hours Hours	Staff Average \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduct EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer	Amou O O O O	nt s Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA	Amou O er O DD O	nt S Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary	Amou O er O DD O O	nt S Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other	Amou O er O DD O	nt S Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary	Amou O er O DD O O	nt s Hours Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other	Amou O er O DD O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal	Amou O er O DD O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal	Amou O er O DD O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials c. Transportati d. Profit	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal	Amou O er O DD O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern	Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal on syments (eg. 2544's) ment Payments (eg. 114-	Amou O O O O O O O O O O O O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern	CAI Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal	Amou O O O O O O O O O O O O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTRA	Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal on syments (eg. 2544's) ment Payments (eg. 114-	Amou O O O O O O O O O O O O O	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTRA	Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal on syments (eg. 2544's) ment Payments (eg. 114-	Amou or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER CONTRACTS & OTI 8) A/E Contract P a. Labor b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTR SUMMARY 11) Total Estimate	Materia Reproduce EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engine Architect/Engineer Technician / Drafter/CA Secretary other labor subtotal on ayments (eg. 2544's) ment Payments (eg. 114- ACTS & OTHER COE	Amou or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0 or 0	nt S Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	BUDGET WORKS	SHEET						29-Aug-94
	PROJECT:	WILLAMETTE RI	VER TEMPE	RATURE C	ONTROL	FEASIBII	ITY S	STUDY
	TASK:	Cougar EDC				ORG CODE		
	OFFICE:	Hydraulic Design				DL		
	DIRECT CHARGES:							
	1) a. Labor			Amount		off Avera	ge _	\$ Amount
		Branch Chief	14	O Ho		\$52		\$0
		Section Chief	13	68 Ho		\$44		\$2,992
		Architect/Engine		228 Ho	1	\$37	L	\$8,436
		Architect/Enginee		248 Ho		\$34		\$8,432
		Technician	7/ 9		urs	\$26		\$O
		Secretary	5/6		urs	\$17	L	\$ 0
		other		O Ho	urs [\$12		\$ O
	Subtotal in-House D							\$19,860
	2) Tech Indirect (E	•			.0%		L	\$12,710
	General Admin (· · · · · · · · · · · · · · · · · · ·		27.	.0%			\$5,362
	TOTAL LABOR CHA	RGES						\$37,933
	TRAVEL:							
	4) Travel & Transpo	ortation			_			
		!	Per Deim	25 # D	Days [\$75		\$1,875
		Go	vt Vehicle	2000 # N	⁄liles [\$0.25		\$500
			Flight	#Tr	rips [\$250		\$ O
		A	Auto Rental	#Ti	imes [\$35		\$ O
(III)				es sur estratura de la cominção		operation and some		
	SUBTOTAL TRAVEL							\$2,375
	OTHER EXPENSES:							
	5) Graphics						L	\$0
	6) Misc Expenses		CADD		г	405	_	
		•	CADD		ours	\$35	<u> </u>	\$0
			Materials	LS LS			-	\$0
	SUBTOTAL OTHER		production	LO				\$0 \$0
								30
	CONTRACTS & OTH				<u> </u>			
	8) A/E Contract Pa	•		Amount	_	ff Avera	ge —	\$ Amount
	a. Labor	Principal		O Hou		\$0	-	\$0
		Supervisor	F:	O Hou	-	\$O \$O	<u> </u>	\$0
		Senior Architect/l Architect/Engine		O Hou			\vdash	\$0
		Technician / Draf		O Hou		\$0 \$0	-	\$O
		Secretary	ter/CADD	0 Hot	L	\$O \$O	\vdash	\$0 \$0
		other		0 Hot		\$O	\vdash	\$O \$O
		labor subtotal			uis [40	\vdash	\$0 \$0
	b. Materials	labor Subtotal		LS			-	\$0 \$0
	c. Transportation	an.		LS			\vdash	\$0
	d. Profit	<i>7</i> 11			.0%		<u> </u>	\$O
		yments (eg. 2544)	'c)	WE			-	\$O \$O
	•	ment Payments (eg		VVL	.5		 	. +0
	SUBTOTAL CONTRA							\$0
	SUMMARY						1000	***
		d Cost for Accoun	+ 30 ^				.	\$40,308
	•	Account 30.A.A.	. JU.A.		%			\$40,308
				<u> </u> 3	70			
	13) TOTAL FOR	{ UFFICE						\$42,323

	TASK WORKSHE	ET							
	PROJECT:	WILLAMETTE RIVER TEM	PERATI	JRE CO	NTRO	LFEAS	IBILITY	'STUD	Υ
	TASK:	Cougar EDC							
000000000	OFFICE:	Hydraulic Design							
						HOURS			
	DIRECT LABOR ACT		14	13	12	11	9	5/6	other
	Preconstruction meet			8					
	Information requests			20	80				
	Site visits / Field insp	ections		40	120				
	SD and VE reviews			<u> </u>	20	40			
				ļ	-		ļ		
							-		
									
				68	330	240	peripolographic (C		
			0	00	228	248	0	0	0
550505056;			F			HOLIDO			
	A/F LABOD ACTIVITY	•	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	A/E LABOR ACTIVIT	Y	Fiiii.	Supr.	SI AE	AE	1/0	Sec.	other
		**							
			 -						
							-		
								The North Control	
	A/E LABOR TOTALS		0	0	0	0	0	0	0
									
	REMARKS								
***********		_							
									}

	BUDGET WORK	SHEET					29-Aug-94
	PROJECT:	WILLAMETTE RIVE	R TEMPE	RATUR	E CONTR	OL FEASIBILIT	TY STUDY
ŀ	TASK:	Cougar EDC				ORG CODE	
	OFFICE:	Reservoir Regulation	on & Wate	r Quali	ty	DR	
	DIRECT CHARGES:						
	1) a. Labor			Amour	-	Staff Average	\$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	16	Hours	\$44	\$704
		Architect/Engineer		120	Hours	\$37	\$4,440
		Architect/Engineer	11	120	Hours	\$34	\$4,080
		Technician	7/9	0	Hours	\$26	\$ 0
		Secretary	5/6	0	Hours	\$17	\$0
		Stay-In-School	3/4	0	Hours	\$12	\$O
	Subtotal In-House D	irect Labor			_		\$9,224
	2) Tech Indirect (I	Est Rate:)			64.0%		\$5,903
	3) General Admin	(Est Rate:)			27.0%		\$2,490
	TOTAL LABOR CHA	RGES					\$17,618
	TRAVEL:						
2000	4) Travel & Transpo	ortation					
	·	Pe	r Deim	0	# Days	\$75	\$O
		Gov	t Vehicle	0	# Miles	\$0.25	\$0
	ļ		Flight		#Trips	\$250	\$O
		Au	ito Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
_	5) Graphics						\$0
	6) Misc Expenses				_		
			CADD	0	#Hours	\$35	\$0
		Ma	aterials		LS		\$0
			oduction		LS		\$500
	SUBTOTAL OTHER	EXPENSES					\$500
	CONTRACTS & OTH	IER COE:					
	8) A/E Contract Page 1	ayments		Amou	nt	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
	,	Supervisor		0	Hours	\$0	\$O
		Senior Architect/En	gineer	0	Hours	\$0	\$O
		Architect/Engineer		0	Hours	\$0	\$ 0
		Technician / Drafte	r/CADD	0	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$O
		other		0	Hours	\$0	\$0
		labor subtotal				<u> </u>	\$0
	b. Materials				LS		\$O
	c. Transportation	on			LS		\$O
	d. Profit				10.0%		\$0
	9) Other Corps Pa	yments (eg. 2544's))	'			
		ment Payments (eg.					
	SUBTOTAL CONTRA						\$0
	SUMMARY						
		d Cost for Account	30.A.				\$18,118
	· ·				2221		***************************************
	12) Contingency, A	Account 30.A.A.			20%		\$3,624

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI TASK: Cougar EDC			NTRO	L FEAS	IBILITY	STUE	iΥ
	OFFICE: Reservoir Regulation & Wa	ter Qu	ality	ı	HOURS	:		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	3/4
	Interum Water Control Manual		16		120			
	A Court Nation (Christian	<u> </u>		100				
	Agency Coord. Mtg's (6/yr) res. reg. and turbidit	у 		120				
		,						
		0	16	120	120	0	0	0
					HOURS		·	
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
					·			
								
	A/E LABOR TOTALS	0	0	0	0	0	0	0
						-		
	REMARKS							
-000000000								
Į	CEDC.)	αw						

BUDGET WORK	SHEET					29-Aug-94
PROJECT:	WILLAMETTE RIVE	R TEMPE	RATURE CO	NTROL FEAS	SIBILITY	
TASK:	Cougar EDC			ORG C	ODE	
OFFICE:	Hydrologic, Coasta	l & River		DI	<u>, </u>	
DIRECT CHARGES	:					
1) a. Labor			Amount	Staff Av	/erage	\$ Amount
	Branch Chief	14	O Hou	rs \$52	2	\$O
	Section Chief	13	88 Hou	rs \$44	1 [\$3,872
	Architect/Engineer	12	80 Hou	rs \$37	7	\$2,960
	Architect/Engineer	11	320 Hou	rs \$34	4	\$10,880
	Technician	7/ 9	O Hou	rs \$26	3	\$0
ł	Secretary	5/6	O Hou	rs \$17	7	\$O
	other		O Hou	rs \$12	2	\$0
Subtotal In-House D	irect Labor					\$17,712
2) Tech Indirect (Est Rate:)		64.0	0%	Γ	\$11,336
 3) General Admin	(Est Rate:)		27.0	0%		\$4,782
TOTAL LABOR CHA	RGES					\$33,830
TRAVEL:						
4) Travel & Transpe	ortation				***************************************	
	Pe	r Deim	# Da	ays \$75	5	\$O
	Govt	Vehicle	600 # M	iles \$0.2	5	\$150
		Flight	#Tri	ps \$25	0	\$O
	Au	to Rental	#Tin	nes \$35	, 	\$O
	-					
SUBTOTAL TRAVEL	.					\$150
OTHER EXPENSES:						
5) Graphics					L	
5) Graphics6) Misc Expenses						
•		CADD	0 #Ho	urs \$35		\$O
•	Ma	aterials	LS	urs \$35		\$0 \$200
6) Misc Expenses	Ma Repr			urs \$35		\$200
6) Misc Expenses SUBTOTAL OTHER	Ma Repr EXPENSES	aterials	LS	urs \$35		
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH	Ma Repr EXPENSES HER COE:	aterials	LS			\$200
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments	aterials	LS LS	Staff Av		\$200 \$200 \$ Amount
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH	Ma Repr EXPENSES HER COE: ayments Principal	aterials	LS LS Amount	Staff Av	rerage	\$200 \$200 \$ Amount \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments Principal Supervisor	oduction	Amount O Hou O Hou	Staff Avrs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En	oduction	Amount O Hou O Hou O Hou	Staff Av rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou	Staff Avers \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafte	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P. a. Labor	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou O Hou Hou O Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials	Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou LS	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation	Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal	aterials oduction gineer	Amount O Hou O Hou O Hou O Hou O Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P. a. Labor b. Materials c. Transportation	Ma Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal	gineer	Amount O Hou O Hou O Hou O Hou O Hou O Hou O Hou LS	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa	Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal on yments (eg. 2544's)	gineer	Amount O Hou O Hou O Hou O Hou O Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportation d. Profit 9) Other Corps Pa	Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg.	gineer r/CADD	Amount O Hou O Hou O Hou O Hou O Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governs	Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg.	gineer r/CADD	Amount O Hou O Hou O Hou O Hou O Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governs SUBTOTAL CONTRA SUMMARY	Markepr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg. ACTS & OTHER COE	gineer r/CADD	Amount O Hou O Hou O Hou O Hou O Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou	Staff Av rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0 rs \$0	rerage	\$200 \$200 \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governs SUBTOTAL CONTRA SUMMARY 11) Total Estimate	Repr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg.	gineer r/CADD	Amount O Hour O Hour O Hour O Hour O Hour C Hour O Hour O Hour O Hour	Staff Avers \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	rerage	\$200 \$200 \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Government Contract SUBTOTAL OTHER b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Government Contract SUBTOTAL CONTRACT SUMMARY 11) Total Estimate	Markepr EXPENSES HER COE: ayments Principal Supervisor Senior Architect/En Architect/Engineer Technician / Drafter Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg. ACTS & OTHER COE	gineer r/CADD	Amount O Hou O Hou O Hou O Hou O Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou C Hou	Staff Avers \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	rerage	\$200 \$200 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

TASK WORKSHEET							
PROJECT: WILLAMETTE RIVER TEMI	PERATI	JRE CO	NTRO	LFEAS	IBILITY	STUE	γ
TASK: Cougar EDC							
OFFICE: Hydrologic, Coastal & Rive	ar T			LOUDO			
DIRECT LABOR ACTIVITY	14	13	12	HOURS	9	5/6	othor
Flow Control Analysis of Diversion Scheme	14	13	12	1 1	9	5/6	other
 Flow Routings		24		120			
 Coordiantion w/RCC (Modified Operations)	1			20		<u> </u>	
						<u> </u>	
Site Visits		20	20	20			
Report							
Document results		12		40			
	 	10					
Interum Water Control Manual		12		80			
 Coordination		20	60	40			
Agency Coord. Mtgs. (3/yr) sedimentation						takan sa sa sa sa sa sa sa sa sa sa sa sa sa	P. G. G. S. S. S. S. S. S. S. S. S. S. S. S. S.
	0	88	80	320	0	0	0
	<u> </u>			HOURS		· <u></u>	
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	<u> </u>						
	ļ						
	 						
	 						
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							

	BUDGET WORKS	SHEET					29-Aug-94
Г	PROJECT:	WILLAMETTE	RIVER TEMPE	RATURE	CONTRO	L FEASIBILITY	STUDY
	TASK:	Cougar EDC				ORG CODE	
	OFFICE:	Geotechnical E	ngineering			CJ	
8888	DIRECT CHARGES:						
	1) a. Labor			Amount	<u> </u>	Staff Average	\$ Amount
		Branch Chief	14	120	Hours	\$52	\$6,240
		STL	13	285	Hours	\$44	\$12,540
l		Geol/Engr-Scie	n 12	712	Hours	\$37	\$26,344
		Geol/Engr-Scie	n 11	276	Hours	\$34	\$9,384
		Technician	7/9	900	Hours	\$26	\$23,400
		Secretary	5/6	8	Hours	\$17	\$136
		other		0	Hours	\$12	\$0
	Subtotal In-House D	irect Labor			•		\$78,044
	2) Tech Indirect (Est Rate:)			64.0%		\$49,948
	3) General Admin	(Est Rate:)			27.0%		\$21,072
	TOTAL LABOR CHA	RGES					\$149,064
	TRAVEL:						
**********	4) Travel & Transpo	ortation					
			Per Diem	28	# Days	\$75	\$2,100
			Govt Vehicle		# Miles	\$0.25	\$6,875
İ			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
			, (0.0) (10) (10)		1" ' ""		<u></u>
	SUBTOTAL TRAVEL						\$8,975
	OTHER EXPENSES:						
	5) Graphics	200000000000000000000000000000000000000					
	6) Misc Expenses						
			CADD	100	#Hours	\$35	\$3,500
			Materials		LS		\$50
1							1 750
ı				•	LS		\$50
	SUBTOTAL OTHER		Reproduction	•	LS		\$3,550
		EXPENSES		·	LS		
	CONTRACTS & OTH	EXPENSES IER COE:				Staff Average	\$3,550
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments		Amour	nt	Staff Average	\$3,550 \$ Amount
	CONTRACTS & OTH	EXPENSES HER COE: ayments Principal			nt Hours	\$O	\$3,550 \$ Amount \$0
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor	Reproduction	Amour 0	nt Hours Hours	\$0 \$0	\$3,550 \$ Amount
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Archited	Reproduction ct/Engineer	Amour 0 0	Hours Hours Hours Hours	\$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor	Reproduction ct/Engineer	Amour 0	nt Hours Hours	\$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Archited Architect/Engir	Reproduction ct/Engineer	Amour 0 0 0	t Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Archited Architect/Engir	Reproduction ct/Engineer	Amour 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Dri Secretary	Reproduction ct/Engineer	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Archited Architect/Engir Technician / Do Secretary other	Reproduction ct/Engineer	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials	EXPENSES HER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Dr Secretary other labor subtotal	Reproduction ct/Engineer	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials	EXPENSES HER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Dr Secretary other labor subtotal	Reproduction ct/Engineer	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation	EXPENSES HER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Dr Secretary other labor subtotal	et/Engineer neer rafter/CADD	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Architect Architect/Engir Technician / Do Secretary other labor subtotal	et/Engineer neer rafter/CADD	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal on yments (eg. 254 ment Payments	ct/Engineer neer rafter/CADD	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr	EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal on yments (eg. 254 ment Payments	ct/Engineer neer rafter/CADD	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governments SUBTOTAL CONTRA	EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal on yments (eg. 254 ment Payments	Reproduction ct/Engineer neer rafter/CADD	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governing SUBTOTAL CONTRA SUMMARY 11) Total Estimates	EXPENSES HER COE: ayments Principal Supervisor Senior Architect/Engir Technician / Do Secretary other labor subtotal on yments (eg. 254 ment Payments ACTS & OTHER	Reproduction ct/Engineer neer rafter/CADD 44's) (eg. 1144's) COE	Amour 0 0 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$3,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERATI	JRE CC	NTRO	L FEAS	IBILITY	/ STUC	γ
	TASK: Cougar EDC							
***************************************	OFFICE: Geotechnical Engineering	1				-		
		L	1 40		HOURS		- '0	<u> </u>
	DIRECT LABOR ACTIVITY EDC Instrumentation	14	13 32	12 160	11	9	5/6	other
	EDC Diversion	48					4	
	Instrumentation Monitoring	40	64	160	160	640	4	
	Instrumentation Reports	36		160	100	160		
_	Review Submittals		28	56	16	100		
	Prepare Modifications	 	12	24	16			
	As-built Dwgs		33	40	60	100		
	Review VE Proposals		4	16				
	Preconstruction Conference		16	8	8			
	Site Visits	16	32	24	16		4	
		120	285	712	276	900	8	0
		T			HOURS			
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/E LABOR ACTIVITY	Filli.	Supr.	SI AL	AE	טוו	Sec.	Other
		-						
		 			-			
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\neg								
						i		
\neg								
	A/E LABOR TOTALS	0	0	0	0	0	0	0
		<u> </u>						
	REMARKS							· · · · ·

	BUE	DGET WORKS	SHEET					29-Aug-94
	PRO.	JECT:	WILLAMETTE	RIVER TEMPE	RATURE	CONTR	OL FEASIBILITY	
	TAS	K:	Cougar EDC				ORG CODE	
	OFFI	ICE:	Fish and Wildlif	e			EN	
	DIR	ECT CHARGES:						
	1) a.	Labor			Amoun	t	Staff Average	\$ Amount
l			Branch Chief	14	0	Hours	\$52	\$O
Ì			Section Chief	13	64	Hours	\$44	\$2,816
l	1		Architect/Engin	eer 12	800	Hours	\$37	\$29,600
1			Architect/Engin	eer 11	0	Hours	\$34	\$O
			Technician	7/ 9	0	Hours	\$26	\$O
			Secretary	5/6	0	Hours	\$17	\$O
			other		0	Hours	\$12	\$O
	Subt	otal In-House D	irect Labor			•		\$32,416
	2)	Tech Indirect (E	Est Rate:)			64.0%		\$20,746
	3) (General Admin ((Est Rate:)			27.0%		\$8,752
	TOT	AL LABOR CHA	RGES					\$61,915
	TRA	VEL:						
	4) T	ravel & Transpo	ortation					
				Per Deim	30	# Days	\$75	\$2,250
			G	Sovt Vehicle	####	# Miles	\$0.25	\$3,750
				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
				· · · · · · · · · · · · · · · · · · ·				
	SUBT	TOTAL TRAVEL						\$6,000
	*****	ER EXPENSES:						
		Graphics						
		Graphics Misc Expenses						
		•		CADD	0	#Hours	\$35	\$0
		•	e	Materials	0	LS	\$35	\$0
	6)	Misc Expenses			0		\$35	
	6) SUBT	Misc Expenses	EXPENSES	Materials	0	LS	\$35	\$0 \$0
	6) SUBT	Misc Expenses TOTAL OTHER I TRACTS & OTH	EXPENSES IER COE:	Materials		LS LS		\$0
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments	Materials	Amour	LS LS	Staff Average	\$ Amount
	6) SUBT	Misc Expenses FOTAL OTHER E TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal	Materials	Amour	LS LS nt Hours	Staff Average	\$ Amount
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor	Materials Reproduction	Amour 0	LS LS nt Hours Hours	Staff Average \$0 \$0	\$ Amount \$0 \$0
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect	Materials Reproduction	Amour 0 0	LS LS nt Hours Hours Hours	Staff Average \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	SUBT CON 8)	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa . Labor	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	6) SUB1 CON 8) a.	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa . Labor Materials	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	6) SUB1 CON 8) a.	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa Labor Materials Transportatio	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	Materials Reproduction t/Engineer Recr	Amour 0 0 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	6) SUB1 CON 8) a. c. d.	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa . Labor Materials Transportation Profit	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal	Materials Reproduction t/Engineer eer after/CADD	Amour 0 0 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	b. c. d. 9)	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa Labor Materials Transportation Profit Other Corps Pay	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on	Materials Reproduction t/Engineer eer after/CADD	Amour 0 0 0 0 0 0 0 0	tt Hours Hours Hours Hours Hours Hours LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. c. d. 9)	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa . Labor Materials Transportation Profit Other Corps Pay Other Governo	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254- ment Payments (Materials Reproduction t/Engineer eer after/CADD	Amour 0 0 0 0 0 0 0 0	tt Hours Hours Hours Hours Hours Hours LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) SUBT CON 8) a. c. d. 9) 10) SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa . Labor Materials Transportation Profit Other Corps Pay Other Governm FOTAL CONTRA	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on	Materials Reproduction t/Engineer eer after/CADD	Amour 0 0 0 0 0 0 0 0	tt Hours Hours Hours Hours Hours Hours LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) SUB1 CON: 8) a. d. 9) 10) SUB1	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa . Labor Materials Transportation Profit Other Corps Pay Other Governm FOTAL CONTRA	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254 nent Payments (companion)	Materials Reproduction t/Engineer eer after/CADD 4's) eg. 1144's)	Amour 0 0 0 0 0 0 0 0	tt Hours Hours Hours Hours Hours Hours LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	b. c. d. 9) (SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa Labor Materials Transportation Profit Other Corps Pay Other Government CONTRA MARY Total Estimated	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254 nent Payments (cost for Accounties)	Materials Reproduction t/Engineer eer after/CADD 4's) eg. 1144's)	Amour 0 0 0 0 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours LS LS 10.0%	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. c. d. 9) (SUBT	Misc Expenses FOTAL OTHER I TRACTS & OTH A/E Contract Pa Labor Materials Transportation Profit Other Corps Pay Other Government CONTRA MARY Total Estimated	EXPENSES IER COE: ayments Principal Supervisor Senior Architect Architect/Engine Technician / Dra Secretary other labor subtotal on yments (eg. 254 ment Payments (cost for Account Count 30.A.A.	Materials Reproduction t/Engineer eer after/CADD 4's) eg. 1144's)	Amour 0 0 0 0 0 0 0 0	tt Hours Hours Hours Hours Hours Hours LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0

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agency coordination meetings						HOURS	3		
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\$10,000 for USFS and ODFW monitoring assistance									
		\$10,000 for USFS and ODFW monitoring assista	ance						

	BUDGET WO	DRKSHEET			29-Aug-94
	PROJECT:	WILLAMETTE RIVER TEMPI	ERATURE CONTR	OL FEASIBILIT	
	TASK:	Cougar EDC		ORG CODE	
	OFFICE:	Technical Resources Branch	ì	CR	
	DIRECT CHAR	IGES:			
	1) a. Labor		Amount	Staff Average	\$ Amount
		Branch Chief 14	0 Hours	\$52	\$ 0
ŀ		Section Chief 13	0 Hours	\$44	\$O
		Architect/Engineer 12	0 Hours	\$37	\$0
		Architect/Engineer 11	0 Hours	\$34	\$0
		Technician 7/9	16 Hours	\$26	\$416
		Secretary 5/6	16 Hours	\$17	\$272
		Stay-In-School 3/4	8 Hours	\$12	\$96
l	Subtotal In-Hou	use Direct Labor			\$784
	2) Tech Indir	ect (Est Rate:)	64.0%		\$502
	3) General Ad	lmin (Est Rate:)	27.0%		\$212
	TOTAL LABOR	CHARGES			\$1,497
	TRAVEL:				
200000	4) Travel & Travel	ansportation			
		Per Deim	0 # Days	\$75	\$0
		Govt Vehicle		\$0.25	\$0
	}	Flight	#Trips	\$250	\$0
		Auto Rental	· ·	\$35	\$0
		7.020 1.0.112		<u> </u>	40
	SUBTOTAL TR	AVEL			\$0
		SEC			
	OTHER EXPEN	5E5;			5004-000-00-00-00-00-00-00-00-00-00-00-00
agagas	5) Graphics	SES:			\$0
00,000					\$0
	5) Graphics		0 #Hours	\$35	\$0
	5) Graphics	nses	0 #Hours LS	\$35	
	5) Graphics	nses CADD	LS	\$35	\$O
	5) Graphics 6) Misc Expe	nses CADD Materials	LS	\$35	\$0 \$0
	5) Graphics 6) Misc Expe	nses CADD Materials Reproduction HER EXPENSES	LS	\$35	\$0 \$0 \$500
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS &	nses CADD Materials Reproduction HER EXPENSES	LS LS	\$35 Staff Average	\$0 \$0 \$500 \$500
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS &	nses CADD Materials Reproduction HER EXPENSES	LS LS		\$0 \$0 \$500
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments	LS LS Amount	Staff Average	\$0 \$0 \$500 \$500 \$ Amount
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal	LS LS Amount 0 Hours	Staff Average	\$0 \$0 \$500 \$500 \$ Amount \$0
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor	LS LS Amount O Hours O Hours	Staff Average \$0 \$0	\$0 \$0 \$500 \$500 \$ Amount \$0 \$0
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor Senior Architect/Engineer	Amount O Hours O Hours Hours Hours	Staff Average \$0 \$0 \$0 \$0	\$0 \$500 \$500 \$500 \$ Amount \$0 \$0 \$0
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer	Amount O Hours O Hours O Hours Hours Hours	Staff Average \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$500 \$500 \$500 \$ Amount \$0 \$0 \$0 \$0
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD	Amount O Hours O Hours O Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$500 \$500 \$500 \$ Amount \$0 \$0 \$0 \$0 \$0
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$500 \$500 \$500 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$500 \$500 \$500 \$500 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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	5) Graphics 6) Misc Expe SUBTOTAL OT CONTRACTS & 8) A/E Contra a. Labor b. Materia c. Transpo d. Profit 9) Other Corp 10) Other Go	nses CADD Materials Reproduction HER EXPENSES OTHER COE: act Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal Is ortation Os Payments (eg. 2544's)	Amount O Hours O Hours O Hours O Hours Hours O Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$500 \$500 \$500 \$500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
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	TASK WORKSHEET							
9999999	PROJECT: WILLAMETTE RIVER TEM TASK: Cougar EDC OFFICE: Technical Resources Branch		URE CO				Y STUE	ΣY
	DIRECT LABOR ACTIVITY	14	13	12	HOURS	S 9	F /6	2/4
	CR CR	1 14	13	12	'	9	5/6	3/4
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	REMARKS							
	CFDC >	(IW						

	BUD	GET WORKS	HEET					9-Nov-94
	PROJ	ECT:	WILLAMETTE	RIVER TEMP	ERATURE	CONTRO	L FEASIBILITY	STUDY
	TASK		Cougar EDC				ORG CODE	
o de la companya	OFFIC		RealEstate				BU	
		CT CHARGES:						
	1) a.	Labor			Amoun	_	Staff Average	\$ Amount
			Division Ch.	13	10	Hours	\$42	\$420
			Branch Ch.	12	50	Hours	\$36	\$1,775
			Attorney	13	50	Hours	\$39	\$1,925
					0	Hours	\$0	\$0
			Technician	11	10	Hours	\$33	\$325
			Secretary	5/6	10	Hours	\$17	\$165
			other		0	Hours	\$O	\$ 0
	•	tal In-House Di						\$4,610
	2) T	ech Indirect (E	st Rate:)			68.0%		\$3,135
		eneral Admin (I				18.0%		\$830
	TOTA	L LABOR CHAP	RGES					\$8,575
	TRAV	EL:						
	4) Tra	avel & Transpo	rtation					
	İ			Per Diem	0	# Days	\$75	\$0
				Govt Vehicle	800	# Miles	\$0.25	\$200
				Flight		#Trips	\$250	\$0
				Auto Renta	1	#Times	\$35	\$0
	SUBT	OTAL TRAVEL						\$200
	OTHE	R EXPENSES:						
	5) Gi	raphics						
	6) N	lisc Expenses				_		
				CADD	0	#Hours	\$35	\$0
				Materials		LS		\$0
				Reproduction		LS		\$25
	SUBT	OTAL OTHER E	XPENSES					\$25
	CONT	RACTS & OTH	ER COE:					
	8) A	/E Contract Pa	yments		Amour	nt	Staff Average	\$ Amount
	a.	Labor	Principal		0	Hours	\$O	\$0
			Supervisor		0	Hours	\$O	\$0
			Senior Archite		0	Hours	\$O	\$ 0
			Architect/Engi		0	Hours	\$O	\$0
			Technician / D	rafter/CADD	0	Hours	\$O	\$0
			Secretary		0	Hours	\$O	\$0
			other		0	Hours	\$O	\$0
			labor subtotal					\$0
	b.	Materials				LS		\$0
	c.	Transportatio	n			LS		\$0
	d.	Profit				10.0%		\$0
		ther Corps Pay	_					
		Other Governm						
	SUBT	OTAL CONTRA	CTS & OTHER	COE				\$0
	SUMN	IARY						
	11) 7	otal Estimated	Cost for Acco	ount 30.A.				\$8,800
	12) (Contingency, A	ccount 30.A.A	٨		10%		\$1,200
	13)	TOTAL FOR	OFFICE					\$10,000

	TASK WORKS	SHEET							
	PROJECT:		ER TEMPERAT	URE CO	ONTRO	L FEAS	SIBILIT'	/ STU	ΣY
	TASK:	Cougar EDC							
	OFFICE:	Real Estate				HOUR	<u> </u>		
	DIRECT LABOR	ACTIVITY	13	12	13	1	11	5/6	other
	Monitor and mod		10				10	10	0 43.01
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	DEMARKO			 					
	REMARKS								

DAS	ELINE	SCOP	E OF	WORI	К		
PROJECT:	_	(c				DATE PR	EPARED:
Willamette Te	emperatur	e Contro	ol				7\18\94
SUBPRODUCT TITLE:	1 D'	0.0					DUCT #/WBS ID:
Partnering - E TECHNICAL MANAGER:	OFFICE/O		<u> </u>	CT/CTIII	DV MANACE	MTCC	OFFICE/OBS:
Doug Clarke	NPP-PN			C1/S101 Clarke	DY MANAGE	,R:	NPP-PM
Subproduct Summary Description	on (attach	additio	nal detai	l sheets	as necessary	·):	
The contractor awarded the bid with the Corps. This has prover contract requirements.				-	•		
There will bea two day kickoff in appropriate, members of the Di develop a partnering agreement identify solutions to potential pro- meetings in the early contract sta- purpose of the followup meeting make any revisions necessary. It	istrict staff that will o oblems. T ages and in as is to ass	f, and a putline when the agree in the miness prob	contract vorking rement widdle of to blems, ap	t facilita relations vill also the cont pply rese	tor. The pury ships, develo include muturact, will be olution proce	pose of the p issue restals goals held as ha esses to sp	e first meeting will be to solution procedures, and and objectives. Followup of day sessions. The pecific problems, and
held in an offsite facility to impro	• .			_			
held in an offsite facility to impro UPWARD REPORTED	ove the wo	orking r	elations.	Follow	vup meetings	s will be he	eld in the District office.
	ove the wo	orking r	elations.	Follow		s will be he	
held in an offsite facility to impro UPWARD REPORTED	ove the wo	orking r	elations.	Follow	vup meetings	s will be he	eld in the District office. COMMITMENT TO
held in an offsite facility to impro UPWARD REPORTED MILESTONES DATE	ove the wo	orking r	elations.	Follow	vup meetings	s will be he	COMMITMENT TO SCOPE, BUDGET,
held in an offsite facility to impro UPWARD REPORTED MILESTONES DATE	ove the wo	orking r	elations.	Follow	vup meetings	s will be he	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
UPWARD REPORTED MILESTONES DATE N/A	% COMPL	INI MILE	TERNAL STONES	Fy02	DATE OUTYEAR	% COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: PM OP-A CT CO-S
UPWARD REPORTED MILESTONES DATE N/A CONSTRUCTION COST	% COMPL	INI MILE	TERNAL STONES	Fy02	DATE	% COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
UPWARD REPORTED MILESTONES DATE N/A	% COMPL	INI MILE	TERNAL STONES	Fy02	DATE OUTYEAR	% COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
UPWARD REPORTED MILESTONES DATE N/A CONSTRUCTION COST	% COMPL	INI MILE	FY00	Fy02 CONTI	DATE OUTYEAR NGENCY	% COMPL TOTAL N/A	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
UPWARD REPORTED MILESTONES DATE N/A CONSTRUCTION COST TOTAL CONSTRUCTION COST	% COMPL	INT MILE	FY00	Fy02 CONTI	DATE OUTYEAR	% COMPL TOTAL N/A	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:

(Date)

(Technical Manager)

(Project\Study Manager)

(Date)

^{*} Allocation does not include Contingency, and is the approved budget amount.

	BAS	ELINE SCOP	E OF WORK	ζ		Page 2		
PROJECT: Willa SUBPRODUCT TITLE:	mette Tem	perature Control- CC	OUGAR & BLUE I	RIVER	DATE PR	EPARED: 7/18/94 DUCT #/WB		
Partne	ering	000000000000000000000000000000000000000			1			
TECHNICAL MANAGE Doug Clarke		OFFICE/OBS: PROJECT/STUDY MANAGER NPP-PM Doug Clarke						
ORGANIZATION	FY 98	FY 99	FY 00	FY 02	FY 03	FY 04	TOTAL	
NPP-PM Contract	5.4	2	2	5.4 A	2	2	18.8	
PE	15	7.5	7.5		7.5	7.5		
ОР	5	2.5	2.5		2.5		20	
co .	5	2.5	2.5	5	2.5	2.5	20	
СТ	0.7		·	0.8			1.5	
						·		
				}				
					ı			
					i	!		
BASELINE SUB-								
PRODUCT ALLOCATI	35.1	14.5	14.5	35.2	14.5	14.5	128.3	

ATTACH DETAILED SUBPRODUCT DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

PM

Contract for facilitator and facility- 5 days prep & \$8,000 facilitator cost (kickoff meeting only)
Meeting preparation & participation- 15 days
Graphics/reproduction- \$3,000

CT

Process contracts- \$1,500 total for Blue & Cougar

CO & OP-V

Meeting preparation, participation, and follow-up

- 2 representatives for each office
- 8 days per person total per project
- 64 days total for Blue & Cougar

PE

Meeting preparation, participation, and follow-up 6 representatives
8 days per person total per project
96 days total for Blue & Cougar

Total Hours = (20 + 64 + 96)*8 = 1440 Hours

PROJECT:

Willamette Temperature Control- COUGAR & BLUE RIVER

TECH ELEMENT:

Various (Partnering)

ACCOUNT CODE:

Typ. Staff

Direct Charges	AUGUONI GODE.				- Typ. Otali	_
Direct Charges Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sas.00 Sa					Element Ave.	Cost
1) Labor Reg	Budget Category	Amount		Variable	Effect. Rate	Estimate
1) Labor Reg						
Reg			Direct	Charges		
Hours Hours Hours Hours Borrowed Hours Hours Subtotal Labor 1440 Hours \$54,720	1) Labor					
Borrowed Hours Hours Hours		•	Hours		\$38.00	\$54,720
Hours						
Subtotal Labor 1440 Hours \$54,720						
2) Travel & Transportation	Borrowed O	Γ	Hours			
Per Diem 22 # Days \$100.00 \$2,200 Govt Vehicle 1200 # Miles \$0.25 \$300 \$300 \$300 \$300 \$2,500 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$3000 \$300	Subtotal Labor	1440	Hours			\$54,720
Subtotal Travel 1200 # Miles \$0.25 \$300	2) Travel & Transportation	n				
Subtotal Travel \$2,500 3) Supplys & Materials	Per Dien	n 22	# Days		\$100.00	\$2,200
3) Supplys & Materials 4) Misc Expense 1500 L.S. (Contract processing) 5) Facility Accounts Reproduction ADP CPU Unit L.S. Survey Days Core Drill Days Shops & Yards Days Subtotal Facility Accounts 3000 6) Contract Payments (A/E, etc.) 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org Distributive Charges 9) Technical Indirect (Est Rate) 10) General Admin (Est Rate) 27% \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$2,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$43,000 \$43,700 \$69,720 Distributive Charges 9) Technical Indirect (Est Rate) 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	Govt Vehicle	e 1200	# Miles		\$0.25	\$300
4) Misc Expense 1500 L.S. (Contract processing) \$1,500 5) Facility Accounts Reproduction 3000 L.S. ADP CPU Unit Plant & Equipment L.S. Survey Days Core Drill Days Shops & Yards Days Subtotal Facility Accounts 3000 \$3,000 6) Contract Payments (A/E, etc.) (Facilitator & Facility) \$8,000 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	Subtotal Travel					\$2,500
4) Misc Expense 1500 L.S. (Contract processing) \$1,500 5) Facility Accounts Reproduction 3000 L.S. ADP CPU Unit Plant & Equipment L.S. Survey Days Core Drill Days Shops & Yards Days Subtotal Facility Accounts 3000 \$3,000 6) Contract Payments (A/E, etc.) (Facilitator & Facility) \$8,000 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	3) Sunnive & Materiale		1 5			
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ADP CPU Unit L.S. Survey Days Core Drill Days Shops & Yards Days Subtotal Facility Accounts 3000 \$3,000 6) Contract Payments (A/E, etc.) (Facilitator & Facility) \$8,000 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org \$69,720 Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730		2000				
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Survey Core Drill Days Shops & Yards Days Subtotal Facility Accounts 3000 \$3,000 6) Contract Payments (A/E, etc.) (Facilitator & Facility) \$8,000 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org \$69,720 Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730				ıt		
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Shops & Yards Days Subtotal Facility Accounts 3000 \$3,000 6) Contract Payments (A/E, etc.) (Facilitator & Facility) \$8,000 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org \$69,720 Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730		<u>-</u>	•			
Subtotal Facility Accounts 3000 \$3,000 6) Contract Payments (A/E, etc.) (Facilitator & Facility) \$8,000 7) Other Corps Payments (eg. MIPR's) 8) Other Government Payments (eg. 1144's) Total Direct Charges for Org Distributive Charges 9) Technical Indirect (Est Rate) 10) General Admin (Est Rate) 27% \$43,776 \$10) General Admin (Est Rate) 27% \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730			-			
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8) Other Government Payments (eg. 1144's) Total Direct Charges for Org Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	-			(i dointator	a raomey,	70,000
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Distributive Charges 9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	8) Other Government Pay	ments (eg. 11	144 5)			
9) Technical Indirect (Est Rate) 80% \$43,776 10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	Total Direct Charges for	Org				\$69,720
10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 \$16,730			Distrib	utive Char	ges	
10) General Admin (Est Rate) 27% \$14,774 Total Distributed Charges \$58,550 Total Estimated Cost for Account 30. for Organization \$128,270 \$16,730	9) Technical Indirect (Fst	Rate)		80%		\$43 <i>.</i> 776
Total Estimated Cost for Account 30. for Organization \$128,270 Contingency \$16,730	•	· ·				•
Contingency \$16,730	Total Distributed Charges	;				\$58,550
Contingency \$16,730	Total Estimated Cost for	Account 30.	for Ord	anization		\$128,270
				•		
Total for Account \$145,000	Total for Account					\$145,000

BASE	LINE S	COP	E OF V	VORK	•					
	•				-					
PROJECT:						DATE P	REPARE	ED:		
Williamette Temperature (Control					Septem	ber 1,	1994 R2		
TASK TITLE:								WBS ID:		
Value Engineering Studies	3					WICHX WITCOX				
TECHNICAL MANAGER:	OFFICE	:	PROJEC'	r/STUD	Y MANAGE		OFFIC			
DD Kido	CENPP-	VE	Doug C	•			CENPP	-DDE-PM		
TASK SUMMARY DESCRIPTION:					or Addit	ional				
Provide the required Value Engineering studies (ER 1110-2-1150) for your project with a programmed cost of \$10,000,000 or more. These studies will provide a quality product at the lowest life cycle cost through VE methodology and should be performed on the earliest document available that satisfies the functional requirements of the project. There are 2 locations, Cougar and Blue River. Each location is programmed to have a construction contract over \$2,000,000. For each construction contract, we need to schedule a minimum of 1 VE study. Additional efforts will be necessary to review Value Engineering proposals from in-house and contractor proposals during the life of each contract. Reporting requirements and higher headquarters inquiries related to the										
study, contract, or VE prestimate.										
UPWARD REPORTED	8		INTER	NAL		8				
MILESTONES DATE	COMPL	MII	LESTONE	3	DATE	COMPL	COMMI	TMENT TO		
							SCOPE	, BUDGET,		
							AND S			
							1	CHEDULE:		
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, , , , , , , , , , , , , , , , , , ,							PM	CHEDULE:		
	FY94	FY95	FY96	FY97	FY98+	TOTAL	1	CHEDULE:		
STUDY/PROPOSAL COSTS	1	FY95 112.5		FY97	FY98+ 319		1	Droetle		
STUDY/PROPOSAL COSTS	1				319		PE-T	Droc ¹ / ₄		
STUDY/PROPOSAL COSTS TOTAL COST	1			18	319	455	PE-T	Dioc1/1		
	1			18	319	455 15	PE-T	CHEDULE:		
	1			18	319	455 15	PE-T	Drocal		
TOTAL COST	1			18 CONTIN	319	455 15	PE-T	Droct!		
TOTAL COST	1			18 CONTIN	319 IGENCY	455 15	PE-T	Moell		
TOTAL COST TOTAL TASK ALLOCATION *	1	112.5		18 CONTIN	319 IGENCY	455 15	PE-T	Diocili		
TOTAL COST TOTAL TASK ALLOCATION * TOTAL ESTIMATE	0.5	112.5	Approv	18 CONTIN	319 IGENCY	455 15 470	PE-T VE-	(Date)		

^{*} Allocation does not include Contingency, and is the approved budget amount.

Page 2 **BASELINE SCOPE OF WORK** PROJECT: DATE PREPARED: Williamette Temperature Control September 1,1994 R2 TASK TITLE: TASK NUMBER/WBS ID: Value Engineering Studies TECHNICAL MANAGER: OFFICE: PROJECT/STUDY MANAGER: OFFICE: DD Kido CENPP-VE Doug Clarke CENPP-DDE-PM ORGANIZATION FY 94 FY95 FY 96 FY 97 FY 98 FY 99 FY 00 FY 01+ TOTAL **VE** Coordination 0.5 5 5 3.5 5 5 32 Studies 105 128 232.5 VE Proposals-C 17.5 90.5 13 20 25 15 VE Proposals-B 20 80 100 TOTAL TASK 0.5 5 18 ALLOCATION 113 18.5 145.5 45 110 455

PROJECT: Williamett	e Temperature Co	ntrol			Date:
TECH ELEMENT:					August 8,1994
WORK COMPONENT:	Cost for each VE study				
			1	Typical Staff	04
Budget Category		Amount		Element Avg Eff Rate 146%	Cost Estimate
Direct Charges:		Amount		LII Mate 14076	Latinate
1) a. Labor					
,	Branch Ch/GM-14	48	Hours	\$53.00	\$2,544
	Sr. Tech Ldr/GM-13	240	Hours	\$42.00	\$10,080
	Engr-Scien/GS-12	80	Hours	\$37.00	\$2,960
	Engr-Scien/GS-11	80	Hours	\$33.00	\$2,640
	Technician GS-09	30	Hours	\$20.00	\$600
	WES	60	Hours	\$45.00	\$2,700
	0		Hours	\$0.00	\$0
			Hours	\$0.00	\$0
			Hours	\$0.00	\$ O
	Office Automation	20	Hours	\$16.00	\$320
	Secretary	40	Hours	\$16.00	\$640
Sub-Total Direct Labor			Hours		\$22,484
2) Tech Indirect (Est Rate:)	(OT EXCLUDED)		70.0%		\$15,739
3) General Admin (Est Rate:)	(OT EXCLUDED)		30.0%		\$6,745
General Admin (Est Nate.)	(O) EXCEODED		Total Labor	Charges	\$44,968
TRAVEL:			. 0 (0. 2000)	J. 10. 900	**************************************
4) Travel & Transportation					•
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Per Diem	15	# Days	\$75.00	\$1,125
	Govt Vehicle	500	# Miles	\$0.25	\$125
	Flight	2	#Trips	\$1,000.00	\$2,000
	Rental Car	2	#Times	\$50.00	\$100
·			Sub-Total Ti	ravel	\$3,350
OTHER:			_		
5) Supplies & Materials	GRAPHICS]LS	\$5	\$0
6) Misc Expenses			=		
	CADD	0	#Hours	\$35	\$0
	Materials		LS	\$1	\$0
	Reproduction	250	JLS	\$0.50	\$125
			Sub-Total O	ther	\$125
CONTRACTS & OTHER (٦	[
8) Contract Payments (A/E, C		48	#Hours	\$60	\$2,880
9) Other Corps Payments (eg.					\$44,000
10 Other Government Paymer	nts (eg. 1144's)	T. 4-1 0 4-1	4 045-	005	×45 000
		I otal Contr	acts and Oth	er COE	\$46,880
					AGE 202
13) Total Estimated Cost for A		2-VE	10.0%		\$95,323
12) Contingency, Account 30.			10.0%		\$9,532 \$104,855
13) Total for Account 3		un to the cita -	articination by an	A/E consultant in the	3,10,7,038
	covers one field trip do	-		oordination of the team	
• •	cess including participat h outside VE professions	· ·	•		
	•		•	nouse personner. I for a week with addition	onal
time for follow	•	to paracipati		w moon mini addition	
3,110 101 10110	·· og erester				

PROJECT: Williameet Ter	nperature Control				Date:
TECH ELEMENT:					13-Jun-94
WORK COMPONENT:	Value Engineering propo	sals			
				Typical Staff	
Budast Catagoni				Element Avg	Cost
Budget Category Direct Charges:	*	Amount		Eff Rate 146%	Estimate
1) a. Labor					
i) a. Labor	Branch Ch/GM-14	О Н	lours	\$53.00	\$ 0
	Sr. Tech Ldr/GM-13		ours	\$42.00	\$840
	Engr-Scien/GS-12		ours	\$37.00	\$592
	Engr-Scien/GS-11		ours	\$33.00	\$528
	Technician GS-09		ours	\$20.00	\$0
			ours	\$0.00	\$0
			ours	\$0.00	\$0
			ours	\$0.00	\$0
			ours	\$0.00	\$0
			ours	\$0.00	\$0
	Secretary		ours	\$16.00	\$0
	,				** ***
Sub-Total Direct Labor	(AT EVALUETO:		ours		\$1,960
2) Tech Indirect (Est Rate:)	(OT EXCLUDED)	<u></u>	0.0%		\$1,372
3) General Admin (Est Rate:)	(OT EXCLUDED)		0.0%	harans	\$588 \$3,920
TRAVEL:		Tota	i Laboi C	marges	30,020
4) Travel & Transportation					
	Per Diem	# Day	'S	\$75.00	\$O
	Govt Vehicle	# Mile		\$0.25	\$0
	Flight	O #Trips	3	\$250.00	\$0
	Rental Car	0 #Time	s	\$50.00	\$0
		Sub-	Total Tra	avel	\$0
OTHER:					
5) Supplies & Materials	GRAPHICS	LS		\$5	\$0
6) Misc Expenses					
	CADD	O #Hou	rs	\$35	\$0
	Materials	LS		\$1	\$0
	Reproduction	0LS		\$0.50	\$0
CONTRACTO & OTHER	205	Sub-	Total Ot	her	\$0
CONTRACTS & OTHER (<u></u>			
8) Contract Payments (A/E, 09) Other Corps Payments (eg		#Hou	'S	\$60	\$0
10 Other Government Paymer					
Contract Sovernment raying	its (cg. 1144 s)	Total Contracts a	ınd Othe	r COF	\$0
		7010. 0000.0			
13) Total Estimated Cost for A	Account 30.A for CENPP	-PE-G			\$3,920
12) Contingency, Account 30			.0%		\$392
13) Total for Account 3		<u></u>			\$4,312
	timate for each VE propo	sal that is submitted by	a contract	tor or in-house personn	
The anticipat	ed activity in number of	proposals submitted wo	uld averag	e 3-4 each year the	
contract is in	force.				
					4

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BA	ASELINE	SCOPI	E OF V	VORK				
PROJECT:						DATE PRE		
Willamette Te	mperature (Control- C	COUGAI	R			8/22/94	
JBPRODUCT TITLE: Project Manag	gement					SUBPRODUCT #/WBS ID:		
TECHNICAL MANAGER: Doug Clarke	OFFICE/OI NPP-PM	BS:	•	CT/STUD	Y MANAGER		OFFICE/OBS: NPP-PM	
Subproduct Summary Description The project manager (PM) is resteam in accordance with ER 5-7-project's cost and schedule, approutside agencies and the media, at The estimated cost includes prepschedules in Open Plan, preparate Due to the need to maintain floor the level of project management.	ponsible for 1. The PM roves chang and other du aration of n ion of neces d control du	overall manager overall manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all manager over all mand manager over all manager over all manager over all manager ove	detail she nanagement funds, a ined in the escribed in eports for gramming	ets as nedent of the essists in rand the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the set of the property and the	e project and secondarion of inserves as the ject manager in input and profess, and input resulting gaps	ssues to ling primary ponent plan. rogressing tof allocations in the con	nit impacts on the int of contact with of official District ions into BMS.	
JPWARD REPORTED MILESTONES DATE	% COMPL	INTE MILEST	RNAL FONES		DATE	% COMPL	COMMITMENT TO SCOPE, BUDGET,	
N/A			N/A				AND SCHEDULE:	
	FY95	FY 96	FY 97	FY 98	OUTYEAR	TOTAL	PM-S	
CONSTRUCTION COST				CONTING	CENCY		PM-P	
TOTAL CONSTRUCTION COST				CONTINU	JENCY			
BASELINE ALLOCATION *	42	93	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	67 CONTING		533		
TOTAL ESTIMATE	ı					576		
Submitted: Jones July	9/8/9	¥	Approve					
(Technical Manager)		(Project\S	(Date)					

^{*} Allocation does not include Contingency, and is the approved budget amount.

PROJECT:

Willamette Temperature Control- COUGAR

TECH ELEMENT:

NPP-PM-P

ACCOUNT CODE:

Typ. Staff

			Element Ave.	Cost
Budget Category	Amount	Variable	Effective Rate	Estimate
		· · · · · · · · · · · · · · · · · · ·		
		Direct Charges		
1) Labor			400.00	40.470
Re	•	4 Hours	\$33.39	\$3,473
O Barraya		Hours		
Borrowe Borrowed O		Hours Hours		
Subtotal Labor		Hours		\$3,473
Oubtotal Labor	.0			,
2) Travel & Transportation	on			
Per Die	m 2	2 # Days	\$75.00	\$150
Govt Vehic	le	# Miles	\$0.25	\$0
Subtotal Travel				\$150
3) Supplys & Materials		L.S.		
• • •	102/	6 L.S.		\$1,926
4) Misc Expense	1926	o L.S.		\$1,320
5) Facility Accounts				
Reproductio		L.S.		
AD		CPU Unit		•
Plant & Equipmer		Days		
Surve Core Dr	-	Days Days		
Shops & Yard		Days		
Subtotal Facility Accounts		0		\$0
Cablotal Facility 7 (0000)				
6) Contract Payments (A	/E, etc.)			
7) Other Corps Payment	s (eg. MIPR's)			
8) Other Government Pa				
-				AE E40
Total Direct Charges for	Org			\$5,549
		Distributive Charg	es	
9) Technical Indirect (Es	t Rate)	130	9%	\$4,514
10) General Admin (Est	-	27	1 %	\$938
Total Distributed Charge	S			\$5,452
Total Estimated Cost for		for Organization		\$11,000
Contingency, Account 3		Ŭ		\$0
Total for Account	-			\$11,000
201 101 - 10000111				

30.P Total = 60%

31.P Total = 40%

Page 2 **BASELINE SCOPE OF WORK** DATE PREPARED: PROJECT: 8/22/94 Willamette Temperature Control- COUGAR SUBPRODUCT #/WBS ID: SUBPRODUCT TITLE: Project Management PROJECT/STUDY MANAGER: **OFFICE/OBS:** TECHNICAL MANAGER: **OFFICE/OBS:** NPP-PM NPP-PM Doug Clarke Doug Clarke FY 01 FY 02 TOTAL FY 96 FY 97 FY 98 FY 99 **FY** 00 **ORGANIZATION** FY 95 420 NPP-PM 52 52 23 51 75 80 51 36 102 14.5 6.5 PM-S 5.5 16 16 14.5 14.5 14.5 0.5 PM-P 1.5 1.5 11 2 1.5 1.5 0.5 2

67

68

68

30

533

98

67

BASELINE

ALLOCATION

42

93

PM

Open Plan- 1 day/month

BMS/allocation/SACCR actions- 1 days/month

PRB reports/meeting- 1 day/month

Site visit- 2 days/year

Coordination, meeting attendance, issue resolution during FDM/P & S-1 day/week

PM involvement during construction season- 1 days/week

Programming actions- 10 days /year

FY 95

40 days

FY 96 - 97

100 days/year

FY 98 - 01

64 days/year

FY 02

32 days

Total 528 days = 4224 hours

PM-S

BMS Input/PRB reports/SACCR processing- 1 day/month

Site visit- 1 day/year

Open Plan- 1/2 day/month

Programming actions/forcon- 3 days/year

Work orders/document review- 1 day/month May - Oct

1/2 day/month Nov - Apr

Total = 31 days/year = 1696 hours

PM-P

Miscellaneous support - 2 days/year = 104 hours

PROJECT:

Willamette Temperature Control- COUGAR

TECH ELEMENT:

NPP-PM

ACCOUNT CODE:

Typ. Staff

				Element Ave.	Cost
Budget Category	Amount		Variable	Effective Rate	Estimate
		Diroct	Characs		
1) Labor		Direct	Charges		
Reg	4224	Hours		\$38.00	\$160,512
0	Ī	Hours			
Borrowed		Hours			
Borrowed O		Hours			A160 F12
Subtotal Labor	4224	Hours			\$160,512
2) Travel & Transportatio	n				
Per Dien		# Days		\$75.00	\$900
Govt Vehicle	2400	# Miles		\$0.25	\$600
Subtotal Travel					\$1,500
3) Supplys & Materials		L.S.			
4) Misc Expense	984	L.S.			\$984
5) Facility Accounts					
Reproduction		L.S.			
ADF		CPU Uni	t		
Plant & Equipmen		Days		,	
Survey		Days			
Core Dril		Days			
Shops & Yards		Days -			45.000
Subtotal Facility Accounts	5000				\$5,000
6) Contract Payments (A	E, etc.)				
7) Other Corps Payments	(eg. MIPR's)				
8) Other Government Pay	ments (eg. 11	(44's)			
Total Direct Charges for (Org				\$167,996
		Distribu	utive Charges		
9) Technical Indirect (Est	Rate)		130%		\$208,666
10) General Admin (Est R			27%		\$43,338
Total Distributed Charges			- / //		\$252,004
Total Estimated Cost for		for Ora	anization		\$420,000
Contingency, Account 30		O.g			\$30,000
•	• • •				
Total for Account					\$450,000

30.P Total = 60%

31.P Total = 40%

PROJECT:

Willamette Temperature Control- COUGAR

TECH ELEMENT:

NPP-PM-S

ACCOUNT CODE:

Typ. Staff

·			Element Ave.	Cost
Budget Category	Amount	Variable	Effective Rate	Estimate
		Direct Charges		
1) Labor		Direct Charges		
1) Labor Re	a 1696	Hours	\$23.03	\$39,059
0	U	Hours		·
Borrowe	d	Hours		
Borrowed O	T	Hours		
Subtotal Labor	1696	Hours	_	\$39,059
2) Travel & Transportation	on			
Per Dier		# Days	\$75.00	\$375
Govt Vehic	е	# Miles	\$0.25 	\$0
Subtotal Travel				\$375
3) Supplys & Materials		L.S.		
4) Misc Expense	1244	L.S.		\$1,244
5) Facility Accounts				
Reproductio	n	L.S.		
AD		CPU Unit		
Plant & Equipmer		Days		
Surve Core Dr	•	Days		
Shops & Yard		Days Days		
Subtotal Facility Accounts	<u> </u>	•	_	\$0
6) Contract Payments (A	/E etc.)			
7) Other Corps Payments				
		1///'e\		
8) Other Government Pa	yments (eg. 1	1 44 3/		
Total Direct Charges for	Org			\$40,678
		Distributive Charge	s	
9) Technical Indirect (Es	Rate)	130%	6	\$50,777
10) General Admin (Est		27%	6 	\$10,546
Total Distributed Charge	S		=	\$61,322
Total Estimated Cost for	Account 30.	for Organization		\$102,000
Contingency, Account 3	0Z			\$13,000
Total for Account				\$115,000

30.P Total = 60%

31.P Total = 40%

ВА	SELINE	SCOP	E OF W	DRK			
PROJECT:		-				DAME D	EVISED:
Willamette Temperatu	re Con	trol					Nov 1994
TASK TITLE:			·		***		UMBER/WBS ID:
Couger/ Construction	n Mana	gement	(31 Ac	count)			O. IDDIK, NDO 1D.
TECHNICAL MANAGER:	OFFIC				Y MANAGI	ER:	OFFICE:
KATHY VEST	CENPP	-CO-S	1	ug Cla			CENPP-DDE-PM
TASK SUMMARY DESCRIPTION						tional	
Provide Construction by Construction Division administration, supervision tasks associated with the It is proposed that for this work. A Project and part-time clerical st Support facilities will l of the contract.	, Engrion & : e consti Consti t Engin	Divisinspectruction ruction neer, pould be	ion, an tion, q on cont n Divis part-ti e assig	nd Cont quality ract a sion no me Con med to	racting rassura t Couge of estab struction o overse	Divisi nce, an r. lish an on Repr e this	on for contract d related Area Office esentative, project.
UPWARD REPORTED MILESTONES DATE	% COMPL	мтт	INTER LESTONE		DATE	% COMPL	COMMITTIMENT TO
MILESTONES DATE	COMPL	MII	JES TONE	5	DAIS	COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
							CENPP-CO-SC CENPP-PM-P CENPP-OP-A
	•						CENPP-PE-D
							CENPP-CT-C
							CENPP-CO-FP
	FY98	FY99	FY00	FY01	FY02	TOTAL	CENPPCO-SC
CONSTRUCTION COST						13,424	
CONSTRUCTION COST			I	ו רראזידידי	NGENCY	2013.6	
TOTAL CONSTRUCTION COST				CONTIL	GEITCI	15438	
TOTAL CONSTRUCTION COST	 					13438	
TOTAL TASK ALLOCATION *	190	219 2	441.6	218 3		1268.3	
					NGENCY	190.2	
TOTAL ESTIMATE	1					1458.5	
Submitted:	11/36/9	4	Approv	ed:			
(Technical Manager) Kathy Vest		(Date)	(Pro	ject\Stu	dy Mgr	(Date)
* Allocation does not inc	clude (Conting	gency,	and is	the app	proved	budget amount.

Page 2 **BASELINE SCOPE OF WORK** PROJECT: DATE REVISED: Willamette Temperature Control 30 Nov 1994 TASK TITLE: TASK NUMBER/WBS ID: Couger/Construction Management (31 Account) TECHNICAL MANAGER: OFFICE: PROJECT/STUDY MANAGER: OFFICE: CENPP-CO-S Kathy Vest Doug Clarke CENPP-DDE-PM ORGANIZATION FY 98 FY99 FY00 FY 01 FY02 FY 03 FY 04 FY 05 TOTAL 150.5 Field Office S&A 251 351.2 250.9 1003.5 CO-FP 31A0 Dist. Office S&A 34.4 57.3 80.2 57.3 229.2 CO-S 31C1 Contrctg Div S&A 4.7 4.7 4.7 2.4 16.5 CT-C 31C2 Engr Div (Shop 1 1.8 1.9 1.8 6.5 Dwg Review) 31C2 Proj Mngmt PM-P 31E0 Operations Div 1.8 3.6 3.6 3.6 OP-P 31C2 TOTAL TASK 318 441.6 318.3 1268.3 ALLOCATION 190.1

ATTACH DETAILED TASK DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

BWFBWTC.XLS

BUDGET WORKSHEET				27-Jun-94	
PROJECT: WILLAMETTE RIVER TE		CONTRO	LFEASIBII	JTY STUDY	
TASK: Compar Construction Ma	nagement			ORG CODE	
OFFICE: Construction Division (D	istrict Ofc)			FB/FC	
LABOR CHARGES (Preparation Phase): (2 Week	(S)				
1) a. Labor		Amount	_	Staff Ave	\$ Amount
Chief (14)		11	Hours	\$63	\$63
Branch Chief (13)		4	Hours	\$44	\$176
CA Engineer (12)		16	Hours	\$42	\$672
Budget Tech. (7/8)		3	Hours	\$19	\$57
Support Svcs Spec (7)		1	Hours	\$21	\$21
Secretary (5)		3	Hours	\$15	\$45
Other			Hours	\$0	0
Subtotal In-House Direct Labor					\$1,034
2) Tech Indirect (Est. Rate:)	68.00%				\$703
3) G&A Rate (Est. Rate):	20.00%				\$207
Total Labor Charges (Preparation Phase):					\$1,944
LABOR CHARGES (Construction Phase):	188	Weeks			
4) a. Labor		Amount		Staff Ave	\$ Amount
Chief (14)		376	Hours	\$63	\$23,688
Branch Chief (13)		564	Hours	\$44	\$24,816
CA Engineer (12)		564	Hours	\$42	\$23,688
Budget Tech. (7/8)		752	Hours	\$19	\$14,288
Support Svcs Spec (7)		94	Hours	\$21	\$1,974
Secretary (5)	•	188	Hours	\$15	\$2,820
Environmental Spec (12))	188	Hours	\$37	\$6,956
Environmental Engr (12)		94	Hours	\$33	\$3,102
Subtotal In-House Direct Labor		1			\$101,332
5) Tech Indirect (Est. Rate:)	68.00%				\$68,906
6) G&A Rate (Est. Rate):	20.00%	***************************************			\$20,266
Total Labor Charges (Construction Phase):					\$190,504
LABOR CHARGES (Closeout Phase): (3 Weeks)					
7) a. Labor	1	Amount	٦	Staff Ave	\$ Amount
Chief (14)		1.5	Hours	\$63	\$95
Branch Chief (13)		1.5	Hours	\$44	\$66
CA Engineer (12)		1	Hours	\$42	\$42
Budget Tech. (7/8)		9	Hours	\$19	\$171
Support Svcs Spec (7)		2	Hours	\$21	\$42
Secretary (5)		6	Hours	\$15	\$90
Other			Hours	\$0	
Subtotal In-House Direct Labor					\$506
8) Tech Indirect (Est. Rate:)	68.00%				\$344
9) G&A Rate (Est. Rate):	20.00%				\$101
Total Labor Charges (Closeout Phase):					\$950
TOTAL DIRECT LABOR					\$193,398

BWFBWTC.XLS

BUDGET WORKSHE PROJECT: TASK:				27-Jun-94	· · · · · · · · · · · · · · · · · · ·
	WILLAMETTE RIVER TEMPERATU	RE CONTRO	L FEASIBILIT		
	Cougar Construction Management			ORG CODE	
OFFICE:	Construction Division (District Ofc)			FBIFC	
TRAVEL:					
***************************************	portation (Dist Ofc)	***************************************	***************************************		\$ Amount
	Per Diem (1 RT @ 2dys/month)	94	# Days	\$75	\$7,050
	Govt Vehicle	9400	# Miles	\$.35	\$3,290
	Airlines		# Trips	\$0	\$0
	Auto Rental		# Times	\$0	\$0
Total Direct Trave					\$10,340
MISCELLANEOUS E	***************************************				
11) Supplies & Mat	erials				\$0
12) Reproduction					\$0
13) Other					\$0
	flaneous Expenses:				\$0
O A INSPECTION:					
14) a. Labor	Amount	10	-		Amount
	Branch Chief (13)	16	Hours	\$44	\$704
. -	Quality Assur Spec (11)	256	Hours	\$28	\$7,168
Subtotal in-House	Nirect Labor				\$7,872
15) Tech Indirect (E		7			\$5,353
16) G&A Rate (Est.	·····	_			\$1,574
Total Direct Labor	20.007	<u> </u>			\$14,799
17) Travel & Trans	nortation				\$ Amount
17, 1,010, 0, 1,010	Per Diem	64	# Days	\$75	\$4,800
	Govt Vehicle	1600	# Miles	\$.35	\$560
	Airlines		# Trips	\$0	\$0
	Auto Rental		# Times	\$0	\$0
Total Direct Travel			٠		\$5,360
Total Direct Expen	ses for QA Inspection				\$25,519
Contracting Division	on		_		
40) Cameracina Of	fficer	172	Hours	\$40	\$6,880
18) Contracting O					
18) Contracting Of 19) Procurement		564	Hours	\$15	\$8,460 \$15,340

BWFDWTC.XLS

BUDGET WORKSI			******		27-Jun-94	***************************************
PROJECT:	WILLAMETTE RIVER TE		E CONTRO	L FEASIBILIT		
TASK:	Cougar Construction Ma				ONG COCH	
OFFICE:	Construction Division (F				FD	
	(Preparation Phase): (2 wee	ks)				
1) a. Labor			Amount		Staff Ave	\$ Amount
	Resident Engr (14)		2	Hours	\$54	\$108
	Proj Manager (13)		8	Hours	\$37	\$296
	CA Engr Tech (11)		2	Hours	\$30	\$60
	Elect Engr Tech (11)		<u> </u>	Hours	\$27	\$0
	QA Inspector (9/11/12)			Hours	\$27	\$0
	Procurement Clrk (5)		4	Hours	\$15	\$60
	Secretary (6)		2	Hours	\$17	\$34
	Loaned Secretary (4/5)			Hours	\$14	\$0
Subtotal In-House	e Direct Labor		•			\$558
2) Tech Indirect (•	68.00%	4			\$379
3) G&A Rate (Est		20.00%				\$112
	ges (Preparation Phase):					\$1,049
₩.	(Construction Phase):	188	Weeks			
4) a. Labor			Amount	-	Staff Ave	\$ Amount
- -	Resident Engr (14)		188	Hours	\$54	\$10,152
	Proj Manager (13)		7440	Hours	\$37	\$275,280
	Civ Engr Tech (12)		376	Hours	\$30	\$11,280
	Elect Engr Tech (11)		564	Hours	\$27	\$15,228
	QA Inspector (9/11/12)			Hours	\$27	\$0
	Procurement Cirk (5)	:	940	Hours	\$15	\$14,100
	Secretary (6)		94	Hours	\$17	\$1,598
	Loaned Secretary (4/5)	1	3760	Hours	\$14	\$52,640
Subtotal In-House	e Direct Labor					\$327,638
5) Tech Indirect (Est. Rate:)	68.00%	8			\$222,794
6) G&A Rate (Est		20.00%				\$65,528
Total Labor Char	ges (Construction Phase):					\$615,859
LABOR CHARGES	(Closeout Phase): (3 weeks	;}				
7) a. Labor			Amount	_	Staff Ave	\$ Amount
	Resident Engr (14)		2	Hours	\$54	\$108
	Proj Manager (13)	I	48	Hours	\$42	\$2,016
	CA Engr Tech (11)	I	4	Hours	\$30	\$120
	Elect Engr Tech (11)			Hours	\$27	\$0
	QA Inspector (9/11/12)	I		Hours	\$35	\$0
	Procurement Clrk (5)	I	6	Hours	\$15	\$90_
	Secretary (6)	I	2	Hours	\$18	218
	Loaned Secretary (4/5)		4	Hours	\$14	414
Subtotal In-House	e Direct Labor					\$2,334
8) Tech Indirect (I	Est. Rate:)	68.00%				\$1,587
9) G&A Rate (Est		20.00%				\$467
				00000000000 000		
Tetal Labor Char	jes (Closeout Phase):					\$4,388

BWFDWTC.XLS

BUDGET WORKSHEET						-Jun-94		
PROJECT:	WILLAMETTE RIVER TE	MPERATURE	CONTROL	FEASIBILI	TY ST <u>udy</u>			
TASK:	Cougar Construction Ma	nagement			O#6	CODE		
OFFICE:	Construction Division (Fi	eld Office)			FD			
 TRAVEL:								
 10) Travel & Transpor	tation						\$ Ar	mount
•	Per Diem	ſ	940	# Days		\$65		\$61,100
	Govt Vehicle (1 RT per w	rk)	8600	# Miles		\$.35		\$3,010
	Airlines	†		# Trips		\$0		\$0
	Auto Rental			# Times		\$0		\$0
Total Direct Travel Ex	penses:							\$64,110
MISCELLANEOUS EXPE	***************************************							
 11) Supplies & Materia								\$940
12) Reproduction (\$10	D/month)							\$470
 13) Other						330077		\$ 0
Total Direct Miscellan								\$1,410
QUALITY ASSURANCE	INSPECTION				_			•
 14) a. Labor		Amount		→	Staff Ave		\$ Amoun	
	Constr Inspector (9/11/1	2)	4128	Hours	<u> </u>	\$35		\$144,480
-	Other	L		Hours	<u> </u>	\$0		\$0
	_							
Subtotal In-House Dire	1						<u> </u>	\$144,480
15) Tech Indirect (Est.	· ·	68.00%					ļ	\$98,246
 16) G&A Rate (Est. Ra	te):	20.00%		k 2000000000000	**********			\$28,896
Total Direct Labor				1				\$271,622
17) Travel & Transpor				 7			\$ Ai	mount
	Per Diem		160	# Days		\$65	<u> </u>	\$10,400
	Govt Vehicle	Į	34400	# Miles		\$.35		\$12,040
	Airlines	Ĺ		# Trips		\$0	<u> </u>	\$0
	Auto Rental	Į		# Times	L	\$0		\$0
 Total Direct Travel			***************************************					\$22,440
Total Direct Expenses	tor QA Inspection							\$316,502
	OOT FOR 4000000							1 002 410
	OST FOR ACCOUNT 31	.A.1						1,003,419
Contingency, Acco	ount 31Z							\$100,342
TOTAL FOR ACCO	UNT							1,103,761

BLUE RIVER PROJECT

WORK SCOPES

В	ASEL	INE	SCOI	PE OF	WOI	RK			
PROJECT:				···	···		DATE	PREPARED:	
Blue I	River Te	mperatu	re Contr	ol			8/29/94		
SUBPRODUCT TITLE:							SUBPRODUCT #/WBS ID		
	e Design							JTC BU	
TECHNICAL MANAGE	ER:	•		l		JDY MAI	NAGER:	OFFICE/OBS:	
Karl Swanson SUBPRODUCT SUMMA	DIVE	NPP-P		Doug C				NPP-PM	
- PMP Worksheet (sumn - Specific product outlin - Individual office Budge	e (plates	, text, di	awings,		ntions)				
UPWARD REPORTED MILESTONES	DATE		INTER MILES	RNAL STONES		DATE	% COMP	COMMITMENT TO SCOPE, BUDGET,	
								AND SCHEDULE:	
		FY99	FY00	FY01	FY02	FY03	TOTAL		
CONSTRUCTION COST									
			<u> </u>		CONTI	NGENCY	7		
				TOTAL	CONST	R. COST			
		0.35	0.65						
BASELINE ALLOCATIO	N *	343	637				980		
						NGENC	106		
C-1-14-1		<u> </u>			L ESTI	MATE	1086		
Submitted:				Approv	ed:				
(Technical Manager)		(Da	ite)		(Projec	t\Study N	(Ianager)	(Date)	

^{*} Allocation does not include Contingency, and is the approved budget amount.

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS

Swanson

TASK: Blue River FDM

	Office	Org			COSTS			
Organization	Symbol	Code	Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$24,983	\$200	\$250	\$27,069	\$5,250	\$57,752
Design Branch	PE-D	DB	\$10,639	\$0	\$0	\$0	\$1,064	\$11,703
Civil/Land. Design	PE-DC	DC	\$36,668	\$300	\$3,660	\$1,000	\$8,326	\$49,954
Electrical Design	PE-DE	DD	\$15,490	\$100	\$3,100	\$0	\$3,738	\$22,428
Mechanical Design	PE-DM	DF	\$25,732	\$75	\$6,600	\$0	\$3,241	\$35,647
Struct/Arch Des.	PE-DS	DG	\$75,216	\$400	\$26,240	\$173,580	\$27,544	\$302,979
H & H Branch	PE-H	DK	\$11,093	\$O	\$O	\$0	\$1,109	\$12,203
Hydraul. Design	PE-HD	DL	\$107,327	\$1,175	\$4,900	\$30,000	\$7,170	\$150,572
Res. Regulation	PE-HR	DR	\$15,341	\$0	\$0	\$61,184	\$15,305	\$91,830
Hydrology	PE-HY	DN	\$82,565	\$450	\$900	\$0	\$8,392	\$92,307
Geotech Branch	PE-G	CJ	\$107,292	\$700	\$18,690	\$15,000	\$14,168	\$155,851
Economics	PE-PE	ED	\$16,930	\$O	\$O	\$O	\$1,693	\$18,623
Fish & Wldlf	PE-RR	EN	\$10,734	\$475	\$0	\$O	\$1,121	\$12,330
Environmental	PE-RP	EM	\$5,997	\$O	\$0	\$O	\$2,999	\$8,996
Tech. Branch	PE-T		\$39,590	\$0	\$0	\$O	\$3,959	\$43,550
Project	OP-V	JB	\$1,500	\$0	\$0	\$O	\$0	\$1,500
Real Estate	RE-AP	BU	\$6,950	\$100	\$50	\$O	\$700	\$7,800
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$O	\$O	\$4,000
Contract Procuremen	CT-P	ND	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Construction	CO-SC	FE	\$1,750	\$0	\$0	\$0	\$0	\$1,750
TOTALS			\$603,798	\$3,975	\$64,390	\$307,836	\$105,778	\$1,085,774

BLUE RIVER FDM SCOPE OF WORK

PLATES

B1	DC	Site Map
B2	DC	Contractor Operations
B3	DC	Construction Sequence
B4	G	Excavation and Treatment
B5	G	Embankment Stability
В6	DS	Demolition
B7	DS	Elevations
В8	DS	Plan and Longitudinal Section
B9	DS	Structure Sections
B10		Details
B11	DS	R O Trashrack
B12	DM	Equipment Plan
B13	DM	Temperature Control Gate
B14	DM	Bypass Gate
B15	DM	Fuse Panel
B16	HD	Instrumentation
B17	DE	Electrical Site Plan
B18	DE	One Line Diagram

TEXT SECTIONS

1	DS	Introduction
2	DS	Existing Project Features
3	DS	Proposed Features
4	DC	Civil and HTRW
5	G	Geotechnical
6	ΗY	Hydrology
7	HD	Hydraulic
8	HD	Instrumentation
9	DS	Structural
10	DM	Mechanical
11	DΕ	Electrical
12	DS	Construction (C, DC)
13	DS	Operation and Maintenence
14	C	Cost Estimate
15	PΕ	Economics
16	RE	Real Estate
17		Coordination and Correspondance
18	DS	Recommendation

	BUDGET WORK	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIBIL	JTY STUDY
l	TASK:	Blue River FDI	M			ORG CODE	
	OFFICE:	Cost Engineer	ing Branch			CE	
	DIRECT CHARGES						
	1) a. Labor			Amoun	t	Staff Average	ge \$ Amount
		Branch Chief	14	0	Hours	\$53	\$0
		Branch Chief	13	52	Hours	\$48	\$2,496
ļ		Cost Engineer	12	252	Hours	\$42	\$10,584
l		Cost Engineer	11	0	Hours	\$36	\$0
		Technician	7/ 9	0	Hours	\$30	\$ 0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$12	\$0
İ	Subtotal In-House D	irect Labor			•	-	\$13,080
	2) Tech Indirect (Est Rate:)			64.0%		\$8,371
	3) General Admin	(Est Rate:)			27.0%		\$3,532
	TOTAL LABOR CHA	RGES					\$24,983
	TRAVEL:						
	4) Travel & Transpo	ortation					
	1 Traver & Transpo	ortation	Per Deim	2	# Days	\$75	\$150
			Govt Vehicle		# Miles	\$0.25	\$50
			Flight	0	#Trips	\$250	\$0
			Auto Rental	 	#Times	\$35	\$0
			Auto nemai		# THIIC3	<u> </u>	40
	SUBTOTAL TRAVEL	-					\$200
	OTHER EXPENSES:						
	5) Graphics						\$0
l							
l	6) Misc Expenses						
	6) Misc Expenses		CADD	0	#Hours	\$35	\$0
	6) Misc Expenses		CADD Materials		#Hours LS	\$35	
	6) Misc Expenses					\$35	\$O
	6) Misc Expenses SUBTOTAL OTHER		Materials		LS	\$35	\$0 \$50
		EXPENSES	Materials		LS	\$35	\$0 \$50 \$200
	SUBTOTAL OTHER CONTRACTS & OTH	EXPENSES HER COE:	Materials		LS LS		\$0 \$50 \$200 \$250
	SUBTOTAL OTHER	EXPENSES HER COE:	Materials	Amou	LS LS	\$35 Staff Average \$80	\$0 \$50 \$200 \$250
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments	Materials	Amou 36	LS LS	Staff Averag	\$0 \$50 \$200 \$250 ge \$ Amount
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal	Materials Reproduction	Amou 36 0	LS LS nt Hours	Staff Average \$80	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal Supervisor	Materials Reproduction ct/Engineer	Amou 36 0 296	LS LS nt Hours Hours	\$taff Averag	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880 \$0
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal Supervisor Senior Archite	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0	LS LS nt Hours Hours Hours	\$taff Average \$80 \$72 \$65	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880 \$0 \$19,240
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0	nt Hours Hours Hours Hours	\$80 \$72 \$65 \$53	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880 \$0 \$19,240 \$0
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0 0	LS LS nt Hours Hours Hours Hours Hours	\$80 \$72 \$65 \$53 \$36	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880 \$0 \$19,240 \$0 \$0
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0 0	nt Hours Hours Hours Hours Hours Hours	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 ge \$ Amount \$2,880 \$0 \$19,240 \$0 \$0 \$1,240
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0 0 40 24	nt Hours Hours Hours Hours Hours Hours	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880 \$0 \$19,240 \$0 \$0 \$1,240 \$648
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0 0 40 24	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 ge \$ Amount \$2,880 \$0 \$19,240 \$0 \$0 \$1,240 \$648 \$24,008
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal	Materials Reproduction ct/Engineer neer	Amou 36 0 296 0 0 40 24	nt Hours Hours Hours Hours Hours Hours Hours	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 \$250 \$2,880 \$0 \$19,240 \$0 \$0 \$1,240 \$648 \$24,008 \$100
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal	Materials Reproduction ct/Engineer neer brafter/CADD	Amou 36 0 296 0 0 40 24	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 \$250 \$2,880 \$0 \$19,240 \$0 \$1,240 \$648 \$24,008 \$100 \$500
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal	Materials Reproduction ct/Engineer neer Prafter/CADD	Amou 36 0 296 0 0 40 24	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 \$250 \$2,880 \$0 \$19,240 \$0 \$1,240 \$648 \$24,008 \$100 \$500
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal on syments (eg. 25 ment Payments	Materials Reproduction ct/Engineer neer brafter/CADD	Amou 36 0 296 0 0 40 24	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 \$250 \$2,880 \$0 \$19,240 \$0 \$1,240 \$648 \$24,008 \$100 \$500
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governing	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal on syments (eg. 25 ment Payments	Materials Reproduction ct/Engineer neer brafter/CADD	Amou 36 0 296 0 0 40 24	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 ge \$ Amount \$2,880 \$0 \$19,240 \$0 \$1,240 \$648 \$24,008 \$100 \$500 \$2,461
	SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTRA	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal on syments (eg. 25 ment Payments	Materials Reproduction ct/Engineer neer Prafter/CADD 44's) (eg. 1144's) COE	Amou 36 0 296 0 0 40 24	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$200 \$250 \$250 \$250 \$250 \$2,880 \$0 \$19,240 \$0 \$1,240 \$648 \$24,008 \$100 \$500 \$2,461
	b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governs SUBTOTAL CONTRA SUMMARY 11) Total Estimate	EXPENSES HER COE: ayments Principal Supervisor Senior Archite Architect/Engi Technician / D Secretary other labor subtotal on ayments (eg. 25 ment Payments ACTS & OTHER	Materials Reproduction ct/Engineer neer Prafter/CADD 44's) (eg. 1144's) COE	Amou 36 0 296 0 0 40 24	LS LS nt Hours Hours Hours Hours Hours Hours LS LS	\$80 \$72 \$65 \$53 \$36 \$31	\$0 \$50 \$200 \$250 \$250 \$250 \$2,880 \$0 \$19,240 \$0 \$1,240 \$648 \$24,008 \$100 \$500 \$2,461

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERATI	JRE CC)NTRO	LFEAS	BILITY	STUD	Υ
	TASK: Blue River FDM							
	OFFICE: Cost Engineering Branch							
		<u> </u>			HOURS		····	
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
<u> </u>	General Design Conference		8	8	ļ	<u> </u>		
<u> </u>	Review		8	16	<u> </u>	ļ		
	Coordination		8	24				
	Team meetings		8	24				
	A/E D.O. prepare/estimate/negotiate		4	24				
	A/E D.O. coordinate/review		4	32				
	MCACES			40				
	Site visit		12	12	<u> </u>			
	Spreadsheets & FDM Text	ļ		16				
	Finalize Costs & Documentation			16				
	Alternative Cost Support			40				
		0	52	252	0	0	0	0
					HOURS	3		
	A/E LABOR ACTIVITY	Prin.	PM	Sr CE	CE	Jr CE	Tech	Secr
	Management	8						24
	Review	8						
	Coordination	8						
	Meetings			8				
	Background/Scope of Work			8				
	Review Design & Check Quantities			16			40	
	Provide Constructability Review Comments to TM			40				
	Constructibility/Retrofit considerations			8				
	Construction Methods			8				
	Bid Schedule			4				
	LaborCosts, Data Base Update			8				
	Equipment Costs Updates			8				
	Crews			24				
	MCACES			120				
	Write Detailed'Construction Narratives			24				
	Construction Schedule Input and Review			8				-
	Site visit	12		12				
							"	
	A/E LABOR TOTALS	36	0	296	0	0	40	24

	E١		A	n	v	•
м		/1	н	п	N	3

-1 A/E delivery order under \$150K

	BUDGET WORK	SHEET					25-Aug-94
Г	PROJECT:	WILLAMETTE R	IVER TEMPE	RATURI	CONTR	OL FEASIB	ILITY STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Design Branch				DB	†
	DIRECT CHARGES						
	1) a. Labor			Amoun	t	Staff Aver	rage \$ Amount
		Branch Chief	14	96	Hours	\$52	\$4,992
		Section Chief	13		Hours	\$44	\$0
		Architect/Engine			Hours	\$37	\$0
		Architect/Engine			Hours	\$34	\$0
		Technician	7/ 9	-	Hours	\$26	\$0
		Secretary	5/6		Hours	\$17	\$578
		other	3/0		Hours	\$12	\$0
	Subtotal In-House D			ت	110013	<u> </u>	\$5,570
	2) Tech Indirect (1	64.0%		\$3,565
	3) General Admin	•			27.0%		\$1,504
	TOTAL LABOR CHA			I	27.076		\$10,639
		MOLO					1 910,033
	TRAVEL:						
	4) Travel & Transp	ortation	5 5 .		" 5	1 455	7
		_	Per Deim		# Days	\$75	\$0
		G	ovt Vehicle		# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$0
							l yy
	OTHER EXPENSES:						
	5) Graphics6) Misc Expenses						\$0
	o) misc expenses		CADD	0	#Hours	\$35	\$0
			Materials		#Hours	435	\$0
		D	eproduction		LS		\$0
	SUBTOTAL OTHER		eproduction		LO		\$0
	CONTRACTS & OTI						1 40
				A	-4	C+-44 A	A A
	8) A/E Contract P	•		Amour		Staff Aver	
	a. Labor	Principal			Hours	\$0	\$0
	,	Supervisor	, - .		Hours	\$0	\$0
		Senior Architect	-		Hours	\$0	\$0
		Architect/Engine			Hours	\$0	\$0
	:	Technician / Dra	ifter/CADD		Hours	\$0	\$0
		Secretary			Hours	\$0	\$0
		other		0	Hours	\$0	\$0
		labor subtotal					\$0
	b. Materials				LS		\$0
	c. Transportati	on .		_	LS		\$0
	d. Profit			L	10.0%		\$0
	•	yments (eg. 254					
l	10) Other Govern	ment Payments (e		10000000100000000000000000000000000000	esee:0000000000000000000000000000000000		
900000							
	SUBTOTAL CONTRA	ACTS & OTHER C	OE				\$0
	SUBTOTAL CONTRA						
	SUBTOTAL CONTRA SUMMARY 11) Total Estimate	d Cost for Accou					\$10,639
	SUBTOTAL CONTRA SUMMARY 11) Total Estimate	d Cost for Accou Account 30.A.A.		[10%		

	BUDGET WORK	SHEET				25-Aug-94
	PROJECT:	WILLAMETTE RIVER T	EMPERA	TURE CON	TROL FEASIBILI	
	TASK:	Blue River FDM			ORG CODE	
	OFFICE:	Civil and Environmental Desi	ign Section	ı	DC	
	DIRECT CHARGES					
	1) a. Labor		Aı	mount	Staff Averag	e \$ Amount
ĺ		Branch Chief	14 L	O Hours	\$52	\$0
			13	72 Hours		\$3,168
l	İ	Architect/Engineer 12	L	352 Hours	\$37	\$13,024
1		Architect/Engineer 11		0 Hours	\$34	\$0
			7/9	96 Hours	\$26	\$2,496
		Secretary	5/6	30 Hours	\$17	\$510
		other	L	O Hours	\$12	\$ 0
	Subtotal In-House I	Direct Labor				\$19,198
	2) Tech Indirect ((Est Rate:)		64.0%	6	\$12,287
	3) General Admin	(Est Rate:)		27.0%	6	\$5,183
	TOTAL LABOR CHA	ARGES				\$36,668
	TRAVEL:					
	4) Travel & Transp	ortation				
		Per De	eim	0 # Day	s \$75	\$0
		Govt Ve	ehicle 1	200 # Mile	s \$0.25	\$300
		Flig	ght	#Trips	\$250	\$O
		Auto F	Rental [#Time	s \$35	\$0
	SUBTOTAL TRAVE					\$300
	OTHER EXPENSES:					
	5) Graphics					\$0
	6) Misc Expenses			<u> </u>		10.00
			DD [96 #Hour	s \$35	\$3,360
		Materi		LS		\$300
Sama	CHRICTAL OTHER	Reprodu	ction	LS_		\$0
	SUBTOTAL OTHER					\$3,660
	CONTRACTS & OT					
	8) A/E Contract F	•		mount	Staff Average	
	a. Labor	Principal	<u> </u>	0 Hours	\$0	\$0
		Supervisor	-	0 Hours	\$0	\$0
		Senior Architect/Engine	eer	0 Hours	\$0	\$0
		Architect/Engineer		0 Hours	\$0	\$0
		Technician / Drafter/CA	400	0 Hours	\$0	\$0
		Secretary	-	0 Hours	\$0	\$0
		other	L	0 Hours	\$O	\$0
	h Makawiala	labor subtotal		1.0		\$0
	b. Materials	·		LS LS		\$0
	c. Transportati	ion			.	\$0
	d. Profit	numente (eg. 2544)el		10.0%	김	\$0
	·	ayments (eg. 2544's)	1416)			\$1,000
		iment Payments (eg. 114 ACTS & OTHER COE	+4 S)			\$1,000
		AOTO & OTHER OVE				31,000
	SUMMARY	4.0	<u> </u>			112 227
	·	ed Cost for Account 30.A	۸.	000/	٦	\$41,628
\$3500000		Account 30.A.A.		20%	1	\$8,326
	13) TOTAL FO	KUTHUE				\$49,954

TASK WORKSHEET PROJECT WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Blue River FDM OFFICE: Civil and Environmental Design Section **HOURS DIRECT LABOR ACTIVITY** 14 13 12 11 5/6 other General Design Conference 16 12 Coordination Meetings 40 Contractor Operations Plate 24 2 -Access Roads -Clearing, Surfacing 12 24 2 -Contactor Work Areas 24 2 -Contractor Staging Areas **Environmental Protection Inputs** -Sediment Abatement Plan for Site Work 24 2 -Erosion Control Plan for Site Work 24 2 24 2 -Solid Waste Disposal -Haz Waste Disposal 24 2 40 Construction Sequence Plate 4 24 2 -Drawdown 2 -Diversion 24 4 24 2 -Initial Season's Work -Winter Pool Preparation 4 24 2 4 2 24 -Summer Cleanup 16 HTRW 24 2 -Review of Feasibility Findings 24 2 -Develop Anticipated Drawdown Findings 24 2 -Define Cleanup Requirements 0 0 72 352 0 96 30 HOURS T/D Prin. Supr. Sr AE ΑE Sec. other A/E LABOR ACTIVITY 0 0 0 0 0 0 0 A/E LABOR TOTALS

REMARKS

- -includes civil, HTRW, and construction text
- -includes quantity estimates
- -includes site visits

	BUDGET WORK	(SHEET					25-Aug-94
	PROJECT:	WILLAMETTE R	IVER TEMPE	RATUR	E CONTR	OL FEASIBILI	
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Electrical Design				DD	
	DIRECT CHARGES	3:					
	1) a. Labor			Amour	t	Staff Averag	e \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	12	Hours	\$44	\$528
		Architect/Engine		66	Hours	\$37	\$2,442
		Architect/Engine		84	Hours	\$34	\$2,856
		Technician	7/ 9	80	Hours	\$26	\$2,080
		Secretary	5/6	12	Hours	\$17	\$204
		other		0	Hours	\$12	\$0
	Subtotal In-House						\$8,110
	2) Tech Indirect	•			64.0%		\$5,190
	General Admin				27.0%		\$2,190
	TOTAL LABOR CH	ARGES					\$15,490
	TRAVEL:						
	4) Travel & Transp	oortation					
			Per Deim	0	# Days	\$75	\$0
		G	ovt Vehicle	400	# Miles	\$0.25	\$100
			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
0.000000		<u> </u>			***************************************		
	SUBTOTAL TRAVE	41-24-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					\$100
	OTHER EXPENSES	<u> </u>					
	5) Graphics						\$100
	6) Misc Expenses	5					
			CADD	80	#Hours	\$35	\$2,800
		_	Materials		LS		\$100
			eproduction		LS		\$100
	SUBTOTAL OTHER						\$3,100
	CONTRACTS & OT						
	8) A/E Contract I	=		Amou		Staff Average	
	a. Labor	Principal			Hours	\$O	\$0
		Supervisor			Hours	\$0	\$0
		Senior Architect	-		Hours	\$O	\$0
		Architect/Engine		-	Hours	\$0	\$0
		Technician / Dra	fter/CADD		Hours	\$0	\$ 0
		Secretary			Hours	\$0	\$0
		other		0	Hours	\$O	\$ O
		labor subtotal					\$0
	b. Materials				LS		\$0
	c. Transportat	ion			LS		\$ 0
	d. Profit			L	10.0%		\$0
	•	ayments (eg. 2544					
		ment Payments (e					
	SUBTOTAL CONTR	ACIS & OTHER C	UE				\$0
اسببس	SUMMARY						
	•	ed Cost for Accour	nt 30.A.				\$18,690
ŀ	12) Contingency,	Account 30.A.A.		1	20%		\$3,738
	13) TOTAL FO	71000ant 00.71.71.		I			\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERATI	JRE CO	NTRO	FEAS	BILITY	'STUD	Y
	TASK: Blue River FDM							
	OFFICE: Electrical Design							
					HOURS			
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Review		4	12	4			
	Coordination Meetings		4	6	12		2	
	General Design Conference	 		8				
	O' Year	 						
	Site Visits Review Previous Documents			8	8		i	
	I			2	4			
	Load Analysis Main Feeder Design			2	8 4			
	Prepare Plates (2)	 	2	2	12	80		
	Prepare Text		2	8	24	δU	6	
	Estimate Quantities	├	۷.	4	8		Ö	
	Coordination with OP-V			6	0		2	
	Coordination with CP-V	 		4			2	
	Cooldination with Lane Liec			~				
		0	12	66	84	80	12	0
2000000					.0.100			
	4 /5 1 4 DOD-4 OTN //TV	<u> </u>	A		HOURS		I	41
	A/E LABOR-ACTIVITY	Prin.	Supr.	Sr AE	ΑE	T/D	Sec.	other
		 						
		 						
		 						
								
		<u> </u>						
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS	<u> </u>						
00000000								

BEDM XI W

	UDGET WORKS	SHEET			25-Aug-94
1	ROJECT:	WILLAMETTE RIVER TEMP	ERATURE CONTR	OL FEASIBILIT	Y STUDY
1	ASK:	Blue River FDM		ORG CODE	
277277	FFICE:	Mechanical Design		DF	
	DIRECT CHARGES:				
1)	a. Labor		Amount	Staff Average	\$ Amount
		Branch Chief 14	0 Hours	\$52	\$0
		Section Chief 13	28 Hours	\$44	\$1,232
		Architect/Engineer 12	0 Hours	\$37	\$0
		Architect/Engineer 11	354 Hours	\$34	\$12,036
		Technician 7/9	0 Hours	\$26	\$0
1		Secretary 5/6	12 Hours	\$17	\$204
		other	0 Hours	\$12	\$0
1 1	ubtotal In-House D				\$13,472
2)	•	•	64.0%		\$8,622
(3)			27.0%		\$3,637
T	OTAL LABOR CHA	RGES			\$25,732
TI	RAVEL:				
4)	Travel & Transpo	ortation			
		Per Deim	0 # Days	\$75	\$ 0
		Govt Vehicle	300 # Miles	\$0.25	\$75
		Flight	#Trips	\$250	\$0
		Auto Renta	I #Times	\$35	\$ 0
	INTOTAL TRAVEL				
OCCOUNT.	UBTOTAL TRAVEL				\$75
20000000	THER EXPENSES:				
5)	•				\$0
6)	Misc Expenses	04.55	<u> </u>		,
				405	15.000
		CADD	160 #Hours	\$35	\$5,600
		Materials	LS	\$35	\$500
	IBTOTAL OTHER I	Materials Reproduction	LS	\$35	\$500 \$500
-	UBTOTAL OTHER I	Materials Reproductior EXPENSES	LS	\$35	\$500
C	ONTRACTS & OTH	Materials Reproduction EXPENSES IER COE:	LS LS		\$500 \$500 \$6,600
-	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES IER COE: ayments	LS LS Amount	Staff Average	\$500 \$500 \$6,600 \$ Amount
C	ONTRACTS & OTH	Materials Reproduction EXPENSES IER COE: ayments Principal	LS LS Amount O Hours	Staff Average	\$500 \$500 \$6,600 \$ Amount \$0
C	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor	LS LS Amount O Hours O Hours	Staff Average \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES JER COE: ayments Principal Supervisor Senior Architect/Engineer	Amount O Hours O Hours O Hours	Staff Average \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer	Amount O Hours O Hours O Hours O Hours	Staff Average \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES JER COE: Byments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES JER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa a. Labor	Materials Reproduction EXPENSES JER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
C	ONTRACTS & OTH A/E Contract Pa a. Labor	Materials Reproduction EXPENSES JER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
C	DNTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation	Materials Reproduction EXPENSES JER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
8)	b. Materials c. Transportation	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8) 9)	b. Materials c. Transportation d. Profit Other Corps Pare	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
9) 10	b. Materials c. Transportation d. Profit Other Corps Parts	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
9) 10	b. Materials c. Transportation d. Profit Other Corps Parts	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) nent Payments (eg. 1144's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
9) 10	b. Materials c. Transportation d. Profit Other Corps Party Other Governments Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Other Contract Othe	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) nent Payments (eg. 1144's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
9) 10	b. Materials c. Transportation d. Profit Other Corps Part Other Governm JBTOTAL CONTRA JMMARY I) Total Estimated	Materials Reproduction EXPENSES JER COE: Tyments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) nent Payments (eg. 1144's) ACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
9) 10 St 11 12	b. Materials c. Transportation d. Profit Other Corps Part Other Governm JBTOTAL CONTRA JMMARY I) Total Estimated	Materials Reproduction EXPENSES JER COE: Tayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours O Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$6,600 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERATI	URE CO	NTRO	FEAS	BILITY	/ STUC	Υ
	TASK: Blue River FDM							
	OFFICE: Mechanical Design							
					HOURS	3		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	design gates, operators, security covers				24		2	
	write Mechanical section				34		8	
	4 FDM plates		4		160			
	coordination/meetings		6		8		2	
	site visit				8			
	review		16					
	fuse design		2		96			
	quantities				8			
	O&M requirements				8			
	General Design Conference				8			
		0	28	0	354	0	12	0
		U	20	U	394	U	12	U
3333333 3333333					HOURS			
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR ACTIVITY	Prin.	Supr.	SI AE	AE	1/0	Sec.	otner
					"			
								
	·							
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-								
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	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS							

BFDM XI W

	BUDGET WORKS	SHEET			9-Nov-94
	PROJECT:	WILLAMETTE RIVER TEM	PERATURE CONTI	ROL FEASIBILIT	Y STUDY
ĺ	TASK:	Blue River FDM		ORG CODE	
	OFFICE:	Structural and Architectur	al Design	DG	
	DIRECT CHARGES:				
	1) a. Labor		Amount	Staff Average	\$ Amount
		Branch Chief 14	0 Hours	\$52	\$0
		Section Chief 13	132 Hours	\$44	\$5,808
ł	ļ	Architect/Engineer 12	636 Hours	\$37	\$23,532
İ		Architect/Engineer 11	180 Hours	\$34	\$6,120
		Technician 7/9	88 Hours	\$26	\$2,288
		Secretary 5/6	_96 Hours	\$17	\$1,632
		other	0 Hours	\$12	\$ 0
ļ	Subtotal In-House D				\$39,380
	2) Tech Indirect (E	•	64.0%		\$25,203
	3) General Admin (27.0%	-	\$10,633
	TOTAL LABOR CHA	RGES			\$75,216
	TRAVEL:				
	4) Travel & Transpo	ortation			
		Per Deim	4 # Days	\$75	\$300
		Govt Vehic	le 400 # Miles	\$0.25	\$100
Ì		Flight	#Trips	\$250	\$O
		Auto Rent	tal #Times	\$35	\$0
0000000					
	SUBTOTAL TRAVEL				\$400
	OTHER EXPENSES:				
	5) Graphics				\$9,000
	6) Misc Expenses	0.55	<u></u>		
		CADD	64 #Hours	\$35	\$2,240
		Materials	LS		\$5,000
	SUBTOTAL OTHER I	Reproduction	on LS		\$10,000
					\$26,240
	CONTRACTS & OTH				
	8) A/E Contract Pa	•	Amount	Staff Average	\$ Amount
	a. Labor	Principal	4 Hours	\$115	\$460
	•	Supervisor	128 Hours	\$100	\$12,800
	-	Senior Architect/Engineer	688 Hours	\$85	\$58,480
		Architect/Engineer	832 Hours	\$61	\$50,752
		Technician / Drafter/CADD		\$66	\$25,344
		Secretary	16 Hours	\$29	\$464
		other	0 Hours	\$0	\$0
	L	labor subtotal	: 0		\$148,300
	b. Materials		LS		\$7,500
	c. Transportatio	ρΠ	LS		\$2,000
	d. Profit	umanta las OEAAI-\	10.0%		\$15,780
	· ·	yments (eg. 2544's)	١		
'	10) Other Governr	nent Payments (eg. 1144's)		\$173,580
	CHIPTOTAL CONTRA	CTC & OTHER COL			
	SUBTOTAL CONTRA	ACTS & OTHER COE			3.,,3,,560
	SUMMARY				
	SUMMARY 11) Total Estimated	d Cost for Account 30.A.			\$275,436
	SUMMARY 11) Total Estimated	d Cost for Account 30.A. Account 30.A.A.	10%		

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Blue River FDM OFFICE: Structural and Architectural Design HOURS DIRECT LABOR ACTIVITY 5/6 other General Design Conference review coordination, TM meetings A/E D.O. prepare/estimate/negotiate A/E D.O. coordinate/review agency corespondance/presentations site visits VE changes write FDM text sections schedules O **HOURS** A/E LABOR ACTIVITY Prin. Supr. Sr AE ΑE T/D Sec. other management review coordination meetings background/previous documents develop design criteria alternative investigation preliminary design and layout detailed design and analysis steel design details seismic FEM analysis write structural sectionn text prepare 8 CADD plates calculate quantities site visit study existing rebar splices under seismic loads A/E LABOR TOTALS

REMARKS

- FEM computer costs of \$5000 included in A/E materials
- 2 A/E delivery orders under \$150K each will be used

	BUDGET WORK	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE RIVER	TEMPE	RATUR	E CONTRO	L FEASIBILITY	
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	H & H Branch				DK	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt S	Staff Average	\$ Amount
		Branch Chief	14	96	Hours	\$52	\$4,992
		Section Chief	13	0	Hours	\$44	\$O
		Architect/Engineer 1	2	0	Hours	\$37	\$O
		Architect/Engineer 1	1	0	Hours	\$34	\$O
		Technician	7/9	0	Hours	\$26	\$O
		Secretary	5/6	48	Hours	\$17	\$816
		other		0	Hours	\$12	\$O
	Subtotal In-House D						\$5,808
l	2) Tech Indirect (I				64.0%		\$3,717
	3) General Admin				27.0%		\$1,568
	TOTAL LABOR CHA	RGES					\$11,093
	TRAVEL:						
	4) Travel & Transpo	ortation		****			
		Per I	Deim	0	# Days	\$75	\$ 0
		Govt \	Vehicle	0	# Miles	\$0.25	\$ 0
		F	light		#Trips	\$250	\$0
		Auto	Rental		#Times	\$35	\$ 0
200000000					·		
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses				·	<u></u>	
			ADD		#Hours	\$35	\$0
		Mate			LS		\$ 0
	CURTOTALORUER	Reprod	luction		LS		\$0
	SUBTOTAL OTHER I						\$0
	CONTRACTS & OTH						
	8) A/E Contract Pa	•		Amou		taff Average	\$ Amount
	a. Labor	Principal		-	Hours	\$O	\$ 0
	,	Supervisor			Hours	\$O	\$ 0
		Senior Architect/Engir	neer	-	Hours	\$0	\$O
		Architect/Engineer			Hours	\$0	\$0
		Technician / Drafter/C	CADD		Hours	\$0	\$ 0
		Secretary			Hours	\$0	\$ 0
		other		0	Hours	\$O	\$ 0
ı		labor subtotal					\$0
	b. Materials				LS		\$0
	c. Transportation	n			LS	ļ.	\$ 0
	d. Profit			L	10.0%	ļ	\$O
		yments (eg. 2544's)	441.			-	
		nent Payments (eg. 11	44 S)				
	SUBTOTAL CONTRA	CIS & UITEK CUE					\$0
	SUMMARY						
1		Cost for Account 30.	.A.				\$11,093
		ccount 30.A.A.			10%		\$1,109
	13) TOTAL FOR	OFFICE				I	\$12,203

BU	DGET WORKS	HEET					25-Aug-94
PRO	JECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTRO	L FEASIBIL	
TAS	iK:	Blue River FDM				ORG CODE	
OFF	ICE:	Hydraulic Design				DL	
DIR	ECT CHARGES:						
1) a	. Labor			Amour	nt S	Staff Avera	ge \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	115	Hours	\$44	\$5,060
ŀ		Architect/Engineer	12	400	Hours	\$37	\$14,800
		Architect/Engineer	11	1038	Hours	\$34	\$35,292
İ		Technician	7/ 9	40	Hours	\$26	\$1,040
		Secretary	5/6	0	Hours	\$17	\$ 0
		other		0	Hours	\$12	\$0
Sub	total In-House Di	rect Labor			•	·	\$56,192
2)	Tech Indirect (E	st Rate:)			64.0%		\$35,963
3)	General Admin (I	Est Rate:)			27.0%		\$15,172
TOT	AL LABOR CHAI	RGES					\$107,327
TRA	VEL:						
 Alternative states	Travel & Transpo	rtation					
,			er Deim	13	# Days	\$75	\$975
			t Vehicle	800	# Miles	\$0.25	\$200
			Flight	100	#Trips	\$250	\$0
		Aı	uto Rental		#Times	\$35	\$0
					J • • • • • • • • • • • • • • • • • •	,,,,,	,,,
SUB	TOTAL TRAVEL						\$1,175
ОТН	ER EXPENSES:						
 5)	Graphics						\$2,500
6)	Misc Expenses						
			CADD	40	#Hours	\$35	\$1,400
		M	aterials	•	LS		\$500
		Rep	roduction		LS		\$500
SUB	TOTAL OTHER E	XPENSES					\$4,900
CON	TRACTS & OTH	ER COE:					
 8)	A/E Contract Pa	vments		Amou	nt S	Staff Average	ge \$ Amount
·		Principal		0	Hours	\$0	\$0
		Supervisor		0	Hours	\$O	\$0
		Senior Architect/E	ngineer	0	Hours	\$O	\$0
		Architect/Engineer		0	Hours	\$O	\$O
		Technician / Drafte	er/CADD	0	Hours	\$0	\$O
		Secretary		0	Hours	\$O	\$0
		other		0	Hours	\$O	\$O
		labor subtotal			l		\$O
b	. Contracts				LS		\$O
C.	. Transportatio	n			LS		\$O
d					10.0%		\$O
9)	Other Corps Pay	ments (eg. 2544's)		WES		\$30,000
 10)	Other Governm	nent Payments (eg.	1144's)				
SUB	TOTAL CONTRA	CTS & OTHER CO					\$30,000
SUN	IMARY						
11)		Cost for Account	30.A.				\$143,402
12)		ccount 30.A.A.		-	5%		\$7,170
13)					.		\$150,572

 TASK WORKSHEET							
 PROJECT: WILLAMETTE RIVER TEI	UPERAT	URE CO	ONTRO	L FEAS	SIBILIT	Y STUE	ΣY
TASK: Blue River FDM							
OFFICE: Hydraulic Design	T			HOUR	2		
DIRECT LABOR ACTIVITY	14	13	12	11) 9	5/6	other
 Diversion					Ť	1	0 1
 Hydraulic design		10	40	120			
 Tower Features	_				ļ		
Design Hydraulic analysis		20				ļ	ļ
 Coordination		20	40 40				
 Coordination	+	 	70	- 30		<u> </u>	
 Instrumentation	 					<u> </u>	
Design and Quantities		5	20	100			
plate		0	0	20	40	1	
Coordination		0					
WES (in house support)		0	20	40			
 Do- o- o-				ļ	ļ	ļ	
 Report Text	-	0	40	120		ļ	
 Coordination and Meetings	+	20		120		-	
 Review	+	20			-		
Site Visits	†	20	30				
General Design Conference				8			
					ļ	<u> </u>	
	L						
	0	115	400	1038	40	0	Ω
	0	115	400	1038	40	0	0
	0	115		1038 HOURS		0	0
A/E LABOR ACTIVITY		115 Supr.		HOURS		Sec.	other
A/E LABOR ACTIVITY				HOURS			
A/E LABOR ACTIVITY				HOURS			
A/E LABOR ACTIVITY				HOURS			
A/E LABOR ACTIVITY				HOURS			
A/E LABOR ACTIVITY				HOURS			
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				HOURS			
	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
A/E LABOR TOTALS	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other
	Prin.	Supr.	Sr AE	HOURS AE	T/D	Sec.	other

-\$30k for WES analysis and study

BUDGET WORKS	HEET					25-Aug-94
 PROJECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTRO	L FEASIBILI	TY STUDY
TASK:	Blue River FDM				ORG CODE	
OFFICE:	Reservoir Regulati	on & Wate	r Quali	ty	DR	
DIRECT CHARGES:						
1) a. Labor			Amour	nt S	Staff Average	e \$ Amount
	Branch Chief	14	0	Hours	\$52	\$0
	Section Chief	13	28	Hours	\$44	\$1,232
	Architect/Enginee	r 12	0	Hours	\$37	\$0
	Architect/Enginee	r 11	200	Hours	\$34	\$6,800
	Technician	7/9	0	Hours	\$26	\$ 0
	Secretary	5/6	0	Hours	\$17	\$0
	Stay-In-School	3/4	0	Hours	\$12	\$0
Subtotal In-House Di	irect Labor				-	\$8,032
2) Tech Indirect (E	ist Rate:)			64.0%		\$5,140
3) General Admin (Est Rate:)			27.0%		\$2,169
TOTAL LABOR CHA	RGES					\$15,341
TRAVEL:						
 4) Travel & Transpo	rtation					
·	P	er Deim	0	# Days	\$75	\$0
	Gov	t Vehicle	0	# Miles	\$0.25	\$O
		Flight		#Trips	\$250	\$O
	А	uto Rental		#Times	\$35	\$O
SUBTOTAL TRAVEL						\$0
OTHER EXPENSES:						
5) Graphics						\$0
5) Graphics6) Misc Expenses				_		\$0
		CADD	0	#Hours	\$35	\$0 \$0
		Materials	0]#Hours LS	\$35	\$0 \$0
6) Misc Expenses	Rep		0	,	\$35	\$0
	Rep	Materials	0	LS	\$35	\$0 \$0
6) Misc Expenses	Rep EXPENSES	Materials	0	LS	\$35	\$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I	Rep EXPENSES IER COE:	Materials	O Amou	LS LS	\$35	\$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I	Rep EXPENSES IER COE:	Materials		LS LS		\$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments	Materials	Amou	LS LS	Staff Average	\$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal	Materials production	Amou	LS LS int S Hours	Staff Average	\$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee	Materials production Engineer	Amou 0 40 80	LS LS Int S Hours	\$115 \$100	\$0 \$0 \$0 \$0 \$0 \$4,000
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E	Materials production Engineer	Amou 0 40 80	LS LS int S Hours Hours Hours	\$115 \$100 \$85	\$0 \$0 \$0 \$0 \$0 \$1 \$0 \$4,000 \$6,800
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee	Materials production Engineer	Amou 0 40 80 240	LS LS Int S Hours Hours Hours Hours	\$115 \$100 \$85 \$61	\$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft	Materials production Engineer	Amou 0 40 80 240	LS LS Int S Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66	\$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary	Materials production Engineer	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$1 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal	Materials production Engineer	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$12,000
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lat c. Transportation	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests)	Materials production Engineer	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$1 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lat c. Transportatio d. Profit	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests) on	Anterials production Engineer r er/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours Hours	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$1 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$12,000 \$0 \$3,744
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lab c. Transportation d. Profit 9) Other Corps Par	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal o tests) on yments (eg. 2544)	Anterials production Engineer reer/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$12,000 \$12,000
SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lab c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests) on yments (eg. 2544' ment Payments (eg.	Anterials production Engineer rer/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744 \$20,000
6) Misc Expenses SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lab c. Transportation d. Profit 9) Other Corps Par	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests) on yments (eg. 2544' ment Payments (eg.	Anterials production Engineer rer/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$1 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$12,000 \$0 \$3,744
SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lab c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests) on yments (eg. 2544' ment Payments (eg.	Anterials production Engineer rer/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744 \$20,000
SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lab c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr SUBTOTAL CONTRA SUMMARY	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests) on yments (eg. 2544' ment Payments (eg.	Anterials production Engineer rer/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744 \$20,000
SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials (lat c. Transportatio d. Profit 9) Other Corps Pa 10) Other Governr SUBTOTAL CONTRA SUMMARY 11) Total Estimated	Rep EXPENSES IER COE: ayments Principal Supervisor Senior Architect/E Architect/Enginee Technician / Draft Secretary other labor subtotal tests) on yments (eg. 2544' ment Payments (eg.	Anterials production Engineer rer/CADD	Amou 0 40 80 240 0	LS LS Int S Hours Hours Hours Hours Hours Hours LS LS	\$115 \$100 \$85 \$61 \$66 \$29	\$0 \$0 \$0 \$0 \$0 \$1 \$0 \$4,000 \$6,800 \$14,640 \$0 \$0 \$0 \$0 \$25,440 \$12,000 \$0 \$3,744 \$20,000

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY. TASK: Blue River FDM OFFICE: Reservoir Regulation & Water Quality HOURS **DIRECT LABOR ACTIVITY** 14 13 12 11 5/6 3/4 instream instrumentation coordination with USGS 60 8 diversion plan water quality text 12 80 water quality study S&A 8 60 0 28 0 200 0 0 0 HOURS A/E LABOR ACTIVITY Prin. Supr. Sr AE AE T/D Sec. other 40 80 240 water quality study, provide report A/E LABOR TOTALS 40 80 240 0 0 0

REMARKS

- 1 A/E delivery order under \$150K
- does not include analysis of changes to Selective Withdrawal System
- WES water quality ananlysis \$20K

	BUDGET WORKS	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTRO	OL FEASIBIL	TY STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Hydrologic, Coasta	d & River			DN	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt	Staff Averag	je \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	140	Hours	\$44	\$6,160
		Architect/Engineer	12	184	Hours	\$37	\$6,808
		Architect/Engineer		890	Hours	\$34	\$30,260
		Technician	7/ 9	0	Hours	\$26	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$12	\$0
	Subtotal In-House Di	irect Labor			4		\$43,228
	2) Tech Indirect (E	st Rate:)			64.0%		\$27,666
	3) General Admin (27.0%		\$11,672
	TOTAL LABOR CHA						\$82,565
	TRAVEL:						
	4) Travel & Transpo	rtation					
	T TIAVELOCITATISPO		er Deim	4	# Days	\$75	\$300
			t Vehicle		# Miles	\$0.25	\$150
		Gov		800	#Trips	\$250	\$150
		Δ.	Flight	 			\$0 \$0
		A	uto Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$450
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses						40
	o, whice expenses		CADD	0	#Hours	\$35	\$0
		M	aterials		LS	<u> </u>	\$900
			roduction		LS		\$0
	SUBTOTAL OTHER I		roddetion		LO		\$900
							1 ,000
	CONTRACTS & OTH			Amou	4	Staff Averag	- A A
	8) A/E Contract Pa	•		O	Hours	\$0	e \$ Amount \$0
	a. Labor	Principal		0	Hours	\$0	\$0
		Supervisor	!	10	Hours	\$0	\$0
		Senior Architect/E	-	0	Hours	\$0	\$0
		Architect/Engineer Technician / Drafte		10	Hours	\$0	\$0
			SI/CADD	0	4	\$0	\$0
		Secretary		0	Hours	\$0	\$0 \$0
		other			Hours	\$0	
		labor subtotal					\$0
	b. Materials				LS LS		\$0 \$0
	c. Transportation	on					
	d. Profit				10.0%		\$0
		yments (eg. 2544's					
100000000		ment Payments (eg.					\$0
	SUBTOTAL CONTRA	ACIO & UITER CU					
	SUMMARY						
	'	d Cost for Account	30.A.				\$83,915
	12) Contingency, A	Account 30.A.A.			10%		\$8,392
	12) Contingency, F	ACCOUNT CO.A.A.					\$92,307

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEM	PERAT	URE C	ONTRO	L FEA	SIBILIT	Y STU	ΣY
	TASK: Blue River FDM							
	OFFICE: Hydrologic, Coastal & Rive	er T			HOURS			
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Coordination	'4	13	12	11	9	3/0	Other
	General	 			80			
	Meetings (a 1 year duration)				30			
	Flood Control Analysis of Diversion Scheme						-	
	Coodination w/RCC (Modified Control)				20			
į	Flood Routings		20		160			
	flood Frequency Analysis by month		20		160			
	Conservation Analysis of Diversion Scheme		ļ					
	Coordination w/RCC (Modified Conservation)	<u> </u>			40			
	Consequetion Doubles (Manthly flavor)							
	Conservation Routings (Monthly flows) Model set up		10		80			
	Routings/tabulate results	 	20	_	120			
	noutings/tabulate results		20		120			
	Sedimentation analysis of diversion		20	120				
	ocumentation analysis of arrondon			120				
	Site Visit		20	40	40			
	Text		10	20				
	Review		20		40			
	Revise/Incorporate Comments	<u> </u>		4	20			
	Closeout files	<u> </u>			20			
							· · · · · · · · · · · · · · · · · · ·	
		 						
		0	140	184	890	0	0	0
odiosess					HOUDO			
	A/F LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR ACTIVITY	Piliti.	Supr.	SI AL	AL	1/0	Sec.	Other
	A /F LABOR TOTALO	0	0	0	0	0	0	0
	A/E LABOR TOTALS	U	U	U	U			•
.,,,,,,,,,,,,								
	REMARKS							

BFDM.XLW

	BUDGET WORKS	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE RIV	ER TEMPER	ATUR	E CONTR	OL FEASIBILIT	Y STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Geotechnical Engi	neering			CI	
	DIRECT CHARGES:						
	1) a. Labor	B		Amoun	•	Staff Average	\$ Amount
		Branch Chief	14		Hours	\$52	\$5,408
		STL	13		Hours Hours	\$44	\$14,036
		Geol/Engr-Scien	12			\$37	\$23,384
		Geol/Engr-Scien Technician	11 7/9		Hours Hours	\$34	\$9,928
			7/9 5/6	42	Hours	\$17	\$2,704 \$714
		Secretary other	5/0	0	Hours	\$17	\$714
	 Subtotal In-House D				nours	\$12	\$56,174
	2) Tech Indirect (64.0%		\$35,951
	3) General Admin (·			27.0%		\$15,167
	TOTAL LABOR CHA				_ , , , , ,		\$107,292
	TRAVEL:						1
	4) Travel & Transpo	ortation					
	i i i i avei & i i anspe		er Diem	4	# Days	\$75	\$300
			t Vehicle		# Miles	\$0.25	\$400
		-	Flight	1.000	#Trips	\$250	\$0
		А	uto Rental		#Times	\$35	\$0
						<u> </u>	
	SUBTOTAL TRAVEL						\$700
	OTHER EXPENSES:						
	5) Graphics				-		\$0
	6) Misc Expenses				_	<u> </u>	
			CADD	104	#Hours	\$35	\$3,640
			/laterials	1	LS		\$15,050
			production		LS		\$0
	SUBTOTAL OTHER						\$18,690
	CONTRACTS & OTH	HER COE:					
	8) A/E Contract Pa	•		Amou	•	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
		Supervisor		0	Hours	\$0	\$0
		Senior Geol/Engr-S	scien	0	Hours	\$0	\$0
		Geol/Engr-Scien	/0400	0	Hours	\$0	\$0
		Technician / Draft	er/CADD	0	Hours	\$0	\$0 \$0
		Secretary		0	Hours Hours	\$O \$O	\$15,000
		other (survey) labor subtotal			Inonis	\$0	\$15,000
	b. Materials	เฉมบะ รับมีเป็นสีเ			LS		\$15,000
		on.			LS		\$0
	c. Transportation	OII			0.0%		\$0
		yments (eg. 2544's	s)		2.2,0		
		ment Payments (eg					
	SUBTOTAL CONTRA						\$15,000
	SUMMARY						
		d Cost for Account	· 30.A.				\$141,682
	, , , , , , cai Louinate	a sociation moderation					
	12) Contingency	Account 30.A.A.			10%		\$14.168
	12) Contingency, A	Account 30.A.A.			10%		\$14,168 \$155,851

	TASK WURKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERAT	URE CO	NTRO	LFEAS	SIBILIT'	/ STUE	ìγ
	TASK: Blue River FDM							
	OFFICE: Geotechnical Engineering							
			· · · · · · ·		HOURS			
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	General Design Conference		8					
	Meetings & Coordination		52			<u> </u>	12	
	Review Existing Data		27	48	16			
	Literature Search			8				
	Define Material Properties		2	16		ļ		
	Develop Stability of Embankment Slopes		2	40				
	Design and Analysis	24		88		<u> </u>	ļ	
	Prepare FDM Text	24		88			10	
	Prepare 3 FDM Drawings	24		24		104	<u> </u>	<u> </u>
	Calculate Quantities		2	8	24			
	Concrete and Aggregate Source Study		40	40				
	Interim Reviews/Revisions	24	48	104	80		10	
	Response to Review Comments	8		16	8		10	
	Site Visits		24	16	16			
	Review of VE Proposals		4	8	8			
		104	319	632	292	104	42	0
					HOURS	3		
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
							 	
						-		
	THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT O						l	
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	A/E LABOR TOTALS	0	0	0	0	0	0	0
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	REMARKS							
	authorium desima include d							
	- cofferdam design included							
	BFDM.XI	LW						

	BUDGET WORKS	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE R	IVER TEMPER	ATUR	E CONTRO	L FEASIBIL	ITY STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Economics				ED	
	DIRECT CHARGES:						
	1) a. Labor			Amour	•	Staff Avera	
		Branch Chief	14	0	Hours	\$52	\$ O
		Section Chief	13	40	Hours	\$44	\$1,760
		Architect/Engine		192	i i	\$37	\$7,104
		Architect/Engine		0	Hours	\$34	\$0
		Technician	7/ 9	0	Hours	\$26	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$12	\$0
	Subtotal In-House D						\$8,864
	2) Tech Indirect (E	st Rate:)			64.0%		\$5,673
	3) General Admin (Est Rate:)			27.0%		\$2,393
	TOTAL LABOR CHA	RGES					\$16,930
	TRAVEL:						
	4) Travel & Transpo	ortation					
			Per Deim	0	# Days	\$75	\$0
		G	Sovt Vehicle	0	# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$ 0
					-		
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses				1	105	40
			CADD	0	#Hours	\$35	\$0
			Materials		LS		\$0
			Reproduction	200000000000000000000000000000000000000	LS		\$0
	SUBTOTAL OTHER						\$0
	CONTRACTS & OTH					o. 77	
	8) A/E Contract Pa	•		Amou	-	Staff Average	
	a. Labor	Principal		0	Hours	\$0	\$0
		Supervisor		0	Hours	\$0	\$0
		Senior Architec	•	0	Hours	\$0	\$0
		Architect/Engin		0	Hours	\$0	\$0
		Technician / Dr	arter/CADD	0	Hours	\$0 \$0	\$0 \$0
		Secretary		0	Hours	\$0 \$0	\$0 \$0
		other		0	Hours	\$O	
		labor subtotal			1.0		\$0
	b. Materials				LS		\$0 \$0
	c. Transportation	on			LS		\$0 \$0
	d. Profit		(4)a		10.0%		\$0
	, ·	yments (eg. 254					
******		ment Payments (\$0
	SUBTOTAL CONTRA	ACIS & UTHEK	CUE				30
	SUMMARY						
	l '	d Cost for Accou			400/		\$16,930
		Account 30.A.A.			10%		\$1,693
	13) TOTAL FO	R OFFICE					\$18,623

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI TASK: Blue River FDM	PERATI	JRE CC	NTRO	FEAS	IBILIT'	/ STUC	·Υ
\$0° \$1° - \$4° - \$1°	OFFICE: Economics							
	DIRECT LABOR ACTIVITY	14	13	12	HOURS 11	9	5/6	other
	update economic analysis	<u> </u>	8	40		<u> </u>	0,0	Other
	economic input to water control plan options		16					
	update NED costs associated with construction		8	40				
	prepare a preliminary Cost Allocation Report		8					
	meetings and coordination			8				
					_			
		<u> </u>						
		 					<u> </u>	
							 	
-								
		0	40	192	0	0	0	0
		1	-	<u>-</u>	HOURS	3		
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	ΑE	T/D	Sec.	other
		ļ						
					<u> </u>			
	A/E LABOR TOTALS	0	0	0	0	0	0	0
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	REMARKS						·	
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	BUDGET WORKS	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE RIV	ER TEMPE	RATUR	E CONTRO	L FEASIBILIT	Y STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Fish and Wildlife				EN	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt :	Staff Average	\$ Amount
		Branch Chief	14	0	Hours	\$52	\$ 0
		Section Chief	13	10	Hours	\$44	\$440
		Architect/Engineer	12	140	Hours	\$37	\$5,180
		Architect/Engineer	11	0	Hours	\$34	\$0
		Technician	7/9	0	Hours	\$26	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$12	\$O
	Subtotal In-House D	irect Labor		`			\$5,620
	2) Tech Indirect (E	st Rate:)			64.0%		\$3,597
	3) General Admin (Est Rate:)			27.0%		\$1,517
	TOTAL LABOR CHA	RGES					\$10,734
	TRAVEL:						
**********	4) Travel & Transpo	ortation					
	,		er Deim	3	# Days	\$75	\$225
		Gov	t Vehicle	1000	# Miles	\$0.25	\$250
			Flight		#Trips	\$250	\$0
		Α	uto Rental		#Times	\$35	\$O
	SUBTOTAL TRAVEL						\$475
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses				-		
			CADD	0	#Hours	\$35	\$0
			laterials		LS		\$0
			roduction		LS		\$0
	SUBTOTAL OTHER I	EXPENSES					\$0
	CONTRACTS & OTH	IER COE:					
	8) A/E Contract Pa	ayments		Amou	-	Staff Average	
	a. Labor	Principal		0	Hours	\$O	\$O
	,	Supervisor		0	Hours	\$O	\$0
		Senior Architect/E	•	0	Hours	\$0	\$0
		Architect/Engineer		0	Hours	\$0	\$0
		Technician / Draft	er/CADD	0	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$0
		other		0	Hours	\$0	\$0
		labor subtotal					\$0
	b. Materials				LS		\$0
	c. Transportation	on			LS		\$0
	d. Profit		-1		10.0%		\$O
	1 -	yments (eg. 2544's					
989900		ment Payments (eg					\$0
	SUBTOTAL CONTRA	ACIS & DIHER CO	C				20
	SUMMARY						
	1 '	d Cost for Account	30.A.		4004		\$11,209
		Account 30.A.A.	,		10%		\$1,121
	13) TOTAL FOR	ROFFICE					\$12,330

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI TASK: Blue River FDM	-EHA II	JHE CC	MIHO:	LFEAS	iBILI I Y	/ STUE	lΥ
5000000000	OFFICE: Fish and Wildlife							
	DIRECT LABOR ACTIVITY	14	13	12	HOURS		I = /C	
	internal coordination meetings	14	13	20	11	9	5/6	other
	agency coordination meetings	-	2	20				
	develop measures to reduce fish impacts		2	40		<u> </u>		
	site visits		2	20				
	0100 110110			20		<u>, </u>		
	Cultural Resource Coordination		2	40				
		0	10	140	0	0	0	0
	A /E I AROD ACTIVITY	Prin.	Supr.	Sr AE	HOURS AE		Coo	-45
	A/E LABOR ACTIVITY	Pilli.	Supr.	SI AE	AE	T/D	Sec.	other
\dashv								
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS							
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	BFDM >	(IW						

	BUDGET WORK	SHEET					25-Aug-94
	PROJECT:	WILLAMETTE RIVER	TEMPER	ATUR	E CONTRO	L FEASIBILI	TY STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Environmental Planni	ng			EM	
	DIRECT CHARGES	:					
	1) a. Labor		/	Amoun	t S	taff Average	S \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	0	Hours	\$44	\$O
		Architect/Engineer 1	2	4	Hours	\$37	\$148
		Architect/Engineer 1	1	88	Hours	\$34	\$2,992
		Technician	7/9	0	Hours	\$26	\$O
		Secretary	5/6	0	Hours	\$17	\$O
		Stay-In-School	3/4	0	Hours	\$12	\$ 0
	Subtotal In-House D	Direct Labor					\$3,140
	2) Tech Indirect (Est Rate:)			64.0%		\$2,010
	3) General Admin	(Est Rate:)			27.0%		\$848
	TOTAL LABOR CHA	\RGES					\$5,997
	TRAVEL:						
0000000	4) Travel & Transp	ortation					
			Deim	0	# Days	\$75	\$O
		Govt	Vehicle	0	# Miles	\$0.25	\$O
		F	Flight		#Trips	\$250	\$O
			Rental		#Times	\$35	\$O
	SUBTOTAL TRAVE						\$0
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses	;					
			CADD	0	#Hours	\$35	\$0
			erials		LS		\$0
OT COLUMN			duction		LS		\$0
	SUBTOTAL OTHER						\$0
	CONTRACTS & OT	HER COE:					
	8) A/E Contract F	Payments		Amou	•	taff Average	
	a. Labor	Principal		0	Hours	\$0	\$O
		Supervisor		0	Hours	\$0	\$O
		Senior Architect/Engi	ineer	0	Hours	\$0	\$0
		Architect/Engineer		0_	Hours	\$0	\$0
	1	Technician / Drafter/	CADD	0	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$0
		other		0	Hours	\$0	\$0
		labor subtotal					\$0
	b. Materials				LS		\$0
	c. Transportat	ion			LS		\$0
	d. Profit				10.0%		\$O
Ì		ayments (eg. 2544's)	4.4.41\				
5555500		ment Payments (eg. 1	144'S)	30.000 800 800			
		ACTS & OTHER COE					\$0
	SUMMARY						
	1 '	ed Cost for Account 30	D.A.				\$5,997
		Account 30.A.A.			50%		\$2,999
	13) TOTAL FO	R OFFICE					\$8,996

	TASK WORKSHE	注T							
,	PROJECT:	WILLAMETTE RIVER TEM	IPERATI	URE CO	ONTRO	L FEAS	IBILITY	STUD	Υ
	TASK:	Blue River FDM							
	OFFICE:	Environmental Planning							
						HOURS			
	DIRECT LABOR ACT	IVITY	14	13	12	11	9	5/6	3/4
	review FDM					16			
		sign/material changes)				16			
		ntal documents are req'd			4	16			
	prepare section 404					40			
			0	0	4	88	0	0	0
				33333			· · · · · · · · · · · · · · · · · · ·	•	
			τ			HOURS			
	A/E LABOR ACTIVIT	~	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/L LADON AUTICL	•	+	, , , , , , , , , , , , , , , , , , ,		~~	1/2	000.	Ott.o.
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	A/E LABOR TOTALS		0	0	0	0	0	0	0
	A/L LABOR TOTALO			. ~			. Y		. Y
and a second	REMARKS		····································						

-additional funding would be required if additional documents are needed (high cont. %)

	BUDGET WORKS	HEET					25-Aug-94
	PROJECT:	WILLAMETTE RIVI	ER TEMPER	ATUR	E CONTRI	OL FEASIBILIT	Y STUDY
	TASK:	Blue River FDM				ORG CODE	
	OFFICE:	Technical Resource	es Branch			CR	
	DIRECT CHARGES:						
	1) a. Labor			Amoun	•	Staff Average	
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	32	Hours	\$44	\$1,408
		Architect/Engineer		0	Hours	\$37	\$0
		Architect/Engineer			Hours	\$34	\$3,672
		Technician	7/9	544	1	\$26	\$14,144
		Secretary	5/6	32	Hours	\$17	\$544
	<u> </u>	Stay-In-School	3/4	80	Hours	\$12	\$960
	Subtotal In-House Di				04.55		\$20,728
	2) Tech Indirect (E				64.0%		\$13,266
00000	3) General Admin (27.0%		\$5,597
	TOTAL LABOR CHA	KGES					\$39,590
	TRAVEL:						
	4) Travel & Transpo]		
			er Deim	0	# Days	\$75	\$0
		Gov	t Vehicle	0	# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$0
		Αι	uto Rental	L	#Times	\$35	\$0
	SUBTOTAL TRAVEL						l \$0
	OTHER EXPENSES:						\$0
l	5) Graphics						90
	6) Misc Expenses		CADD	0	#Hours	\$35	\$0
		R.A	laterials		J#Houis LS	_ +00	\$0
			roduction		LS		\$0
	SUBTOTAL OTHER						80
	CONTRACTS & OTH						
	8) A/E Contract Pa			Amou	ınt	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
	a. Laboi	Supervisor		6	Hours	\$0	\$0
		Senior Architect/E	ngineer	0	Hours	\$0	\$0
		Architect/Engineer	-	0	Hours	\$0	\$0
		Technician / Drafte		0	Hours	\$O	\$O
	1	Secretary	, 	0	Hours	\$0	\$O
		other		0	Hours	\$O	\$O
		labor subtotal			-		\$0
	b. Materials				LS		\$0
	c. Transportation	on			LS		\$O
	d. Profit				10.0%		\$O
	1	yments (eg. 2544's	5)				
		ment Payments (eg					
	SUBTOTAL CONTRA						\$0
	SUMMARY						
		d Cost for Account	30 A				\$39,590
	(11) Total Estimate	a Cost for Account	JQ.A.				
		Account 30.A.A.	JO.A.		10%		\$3,959

	TASK WORKSHE	ET							
	PROJECT: TASK: OFFICE:	WILLAMETTE RIVER TEM Blue River FDM Technical Resources Branc		URE CC	NTRO	LFEAS	IBILITY	STUD	Υ
	OFFICE.	ecimical nesources brain				HOURS	<u> </u>		
	DIRECT LABOR ACTI	VITY	14	13	12	11	9	5/6	3/4
	CR								
	4 A/E delivery orders			32		108	528	32	80
	СР								
	budget management						16		
.,.	ca								
				22			544		
	***************************************		0	32	0	108	544	32	80
		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	<u> </u>			HOURS	}		
	A/E LABOR ACTIVITY	,	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
			_	· · · · · ·					
					_				
			 -						
	A/E LABOR TOTALS		0	0	0	0	0	0	0
888888888								<u> </u>	
	REMARKS		<u></u>						
		I							
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		- 4 A/E delivery orders und	ler \$15	OK eac	h will b	e supr	orted		
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BUDGET WORKS	SHEET					9-Nov-94	
PROJECT:	WILLAMETTE	RIVER TEMPER	ATUR	E CONTR	OL FEASIBIL	JTY STUDY	
TASK:	Blue River FD				ORG CODE		
 OFFICE:	Real Estate				BU		
DIRECT CHARGES:							
 1) a. Labor			Amoun	-	Staff Average		
	Division Ch.	13		Hours	\$42	\$504	
1	Branch Ch.	12	80	Hours	\$36	\$2,840	
	Attorney	13	0	Hours	\$39	\$0	
			0	Hours	\$0	\$0	
	Technician	11	8	Hours	\$33	\$260	
	Secretary	5/ 6	8	Hours	\$17	\$132	
[other		0	Hours	\$ 0	\$0	_
Subtotal In-House D						\$3,736	
2) Tech Indirect (E	•			68.0%		\$2,540	_
3) General Admin (50000000000000000000000000000000000000	9090000000	18.0%		\$674	90
TOTAL LABOR CHA	RGES					\$6,950	
TRAVEL:							
 4) Travel & Transpo	ortation			1			
1		Per Diem	0	# Days	\$75	\$0	
		Govt Vehicle	400	# Miles	\$0.25	\$100	
1		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$O	_
SUBTOTAL TRAVEL						\$100	8
	-					V1000	
OTHER EXPENSES:							
15) Con-Li						l ev	,
5) Graphics 6) Misc Expenses						\$0	
5) Graphics 6) Misc Expenses		CADD]#Houre	\$35		
1		CADD Materials	0]#Hours LS	\$35	\$0	
1		Materials]#Hours LS LS	\$35		
6) Misc Expenses				LS	\$35	\$0 \$0	
6) Misc Expenses SUBTOTAL OTHER	EXPENSES	Materials		LS	\$35	\$0 \$0 \$50	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH	EXPENSES HER COE:	Materials		LS LS		\$0 \$0 \$50 \$50	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE:	Materials	1	LS LS	\$35 Staff Averages \$0	\$0 \$0 \$50 \$50	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH	EXPENSES HER COE: Payments Principal	Materials	1 Amou	LS LS	Staff Average	\$0 \$0 \$50 \$50 ge \$ Amount	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE:	Materials Reproduction	Amou	LS LS unt Hours	Staff Average	\$0 \$0 \$50 \$50 ge \$ Amount \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: Payments Principal Supervisor	Materials Reproduction	Amou 0	LS LS unt Hours Hours	Staff Average \$0	\$0 \$50 \$50 \$50 ge \$ Amount \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E	Materials Reproduction Ingr-Scien	Amou	LS LS unt Hours Hours Hours	Staff Average \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 ge \$Amount \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci	Materials Reproduction Ingr-Scien	Amou 0 0 0 0	LS LS unt Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$60 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I	Materials Reproduction ingr-Scien en Drafter/CADD	Amou 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary	Materials Reproduction ingr-Scien ien Drafter/CADD	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey)	Materials Reproduction ingr-Scien ien Drafter/CADD	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal	Materials Reproduction ingr-Scien ien Drafter/CADD	Amou 0 0 0 0 0	LS LS Int Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal	Materials Reproduction ingr-Scien ien Drafter/CADD	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract P a. Labor b. Materials c. Transportation	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal	Materials Reproduction Ingr-Scien Ien Drafter/CADD	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
b. Materials c. Transportati d. Profit 9) Other Corps Pa	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal ion ayments (eg. 25)	Materials Reproduction ingr-Scien ien Drafter/CADD 1 544's) s (eg. 1144's)	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH 8) A/E Contract Parameters a. Labor b. Materials c. Transportation d. Profit 9) Other Corps Parameters	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal ion ayments (eg. 25)	Materials Reproduction ingr-Scien ien Drafter/CADD 1 544's) s (eg. 1144's)	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
b. Materials c. Transportati d. Profit 9) Other Corps Pa	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal ion ayments (eg. 25)	Materials Reproduction ingr-Scien ien Drafter/CADD 1	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTRA	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal ion ayments (eg. 25)	Materials Reproduction Ingr-Scien ien Drafter/CADD 1 544's) s (eg. 1144's) R COE	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
b. Materials c. Transportati d. Profit 9) Other Corps Pa 10) Other Govern SUBTOTAL CONTRA	EXPENSES HER COE: Payments Principal Supervisor Senior Geol/E Geol/Engr-Sci Technician / I Secretary other (survey) labor subtotal ion ayments (eg. 29 ment Payments ACTS & OTHEI	Materials Reproduction Ingr-Scien Ien Drafter/CADD 544's) s (eg. 1144's) R COE	Amou 0 0 0 0 0	LS LS unt Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$50 \$50 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	

TASK WORKSHEET							
PROJECT: WILLAMETTE RIVER TEM TASK: Blue River FDM OFFICE: Geotechnical Engineering	PERATI	JRE CC	NTRO	L FEAS	(BILIT)	/ STUE	Υ
				HOURS			
DIRECT LABOR ACTIVITY	13	12	13		11	5/6	other
Develop Real Estate section	12	80			8	8	
-write text -delineate construction right-of-way					<u> </u>		
-delineate construction right-or-way	 					<u> </u>	<u> </u>
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	12	80	0	0	8	8	0
				HOURS			
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	 						
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	-						
	 						
	 						<u> </u>
	 						
A/E LABOR TOTALS	0	0	0	0	0	0	0
A/E LABOR TOTALS	V	9					
DEMARKS							
REMARKS							
- cofferdam design included							
BFDM.>	(LW						

PROJECT: Blue River To SUBPRODUCT TITLE: Plans and Sp TECHNICAL MANAGER: Karl Swanson SUBPRODUCT SUMMARY I	oecification OFFIC NPP-P	ns CE/OBS	ol			PAILI	PREPARED: 8/29/94					
SUBPRODUCT TITLE: Plans and Sp TECHNICAL MANAGER: Karl Swanson	oecification OFFIC NPP-P	ns CE/OBS				1	0,20,0					
TECHNICAL MANAGER: Karl Swanson	OFFIC NPP-P	CE/OBS	Plans and Specifications									
Karl Swanson	NPP-P					TIN	CBW					
		F-DS	ı		JDY MAN		OFFICE/OBS:					
SUBPRODUCT SUMMARY I	DESCRIP		Doug C				NPP-PM					
 PMP Worksheet (summary, to Specific product outline (plate) Individual office Budget and 	es, text, dr	awings,		itions)								
UPWARD REPORTED MILESTONES DAT	% E OMP	INTER MILES	NAL STONES		DATE	% COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:					
•												
	FY99	FY00	FY01	FY02	FY03	TOTAL						
CONSTRUCTION COST												
					NGENCY							
-		0.1	TOTAL 0.8		R. COST	<u> </u>						
BASELINE ALLOCATION *		0.1 8 5				847						
		•	•		NGENC	93						
				L ESTI	MATE	940						
Submitted:			Approv	ed:								

^{*} Allocation does not include Contingency, and is the approved budget amount.

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENTIPPEDS Swanson

TASK: Blue River Plans and Specifications

	Office	Org			COSTS			•
Organization	Symbol	Code	Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$20,032	\$200	\$150	\$25,898	\$4,628	\$50,909
Design Branch	PE-D	DB	\$12,957	\$O	\$O	\$0	\$1,296	\$14,253
Civil/Land. Design	PE-DC	DC	\$43,315	\$250	\$7,000	\$0	\$10,113	\$60,678
Electrical Design	PE-DE	DD	\$63,580	\$350	\$13,370	\$0	\$15,460	\$92,760
Mechanical Design	PE-DM	DF	\$35,125	\$75	\$7,300	\$0	\$4,250	\$46,750
Struct/Arch Des.	PE-DS	DG	\$105,050	\$400	\$32,260	\$214,106	\$35,182	\$386,998
H & H Branch	PE-H	DK	\$3,958	\$0	\$0	\$0	\$396	\$4,353
Hydraul. Design	PE-HD	DL	\$49,209	\$475	\$4,600	\$0	\$2,714	\$56,998
Res. Regulation	PE-HR	DR	\$0	\$O	\$0	\$0	\$O	\$0
Hydrology	PE-HY	DN	\$0	\$O	\$O	\$0	\$O	\$0
Geotech Branch	PE-G	CJ	\$117,354	\$900	\$4,810	\$0	\$12,306	\$135,371
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$O	\$O
Fish & Wldlf	PE-RR	EN	\$14,187	\$300	\$O	\$0	\$1,449	\$15,936
Environmental	PE-RP	EM	\$0	\$0	\$0	\$0	\$0	\$ 0
Tech. Branch	PE-T		\$33,486	\$O	\$5,000	\$0	\$3,849	\$42,335
Project	OP-V	JB	\$1,500	\$O	\$0	\$0	\$O	\$1,500
Real Estate	RE-AP	BU	\$14,275	\$200	\$25	\$0	\$1,500	\$16,000
Contract Admin	CT-C	NG	\$4,000	\$O	\$0	\$0	\$O	\$4,000
Contract Procuremen	CT-P	ND	\$4,000	\$O	\$O	\$0	\$O	\$4,000
Construction	CO-SC	FE	\$7,000	\$ 0	\$0	\$0	\$0	\$7,000
TOTALS			\$529,029	\$3,150	\$74,515	\$240,005	\$93,142	\$939,841

BLUE RIVER P&S SCOPE OF WORK

DRAWINGS

```
1
       DS Cover
2
       DS Index and Notes
3
       DC Site Map
4
       DC Roads and Traffic Control
5
       DC Diversion and Water Control
       DC Grading Plan
6
7
       G
          Excavation
8
       G Treatment
9
       DS Intake Structure General
10
       DS Concrete and Reinforcement Notes
11
       DS Demolition I
12
       DS Demolition II
13
       DS Plan and Elevations
14
       DS Sections I
15
       DS Sections II
16
       DS Deck Plan
17
       DS RO Trashrack
18
       DS Reinforcement Plan and Elevations
19
       DS Reinforcement Sections I
20
       DS Reinforcement Sections II
21
       DS Reinforcement Deck Plan
22
       DS Reinforcement RO Trashrack
23
       DS Misc. Metal
       DS Structural Steel - Diversion Trashrack
24
25
       DS Structural Steel - Penstock Trashrack
       DS Structural Steel - Wetwell Trashrack
26
       DM Equipment Plan
27
28
       DM Temperature Control Gates
29
       DM Bypass Gates
30
       DM Fuse Panel
31
       HD Instrumentation
32
       DE One-Line Diagram
33
       DE Control Schematics
34
       DE Motor Control Center
35
       DE Plans I
36
       DE Plans II
37
       DE Elevations I
38
       DE Elevations II
39
       DE Sections and Details I
40
       DE Sections and Details II
41
       DE Conduit and Cable Schedule
       HD Project Characteristics
42
43
       HD Project Hydrographs
```

BLUE RIVER P&S SCOPE OF WORK cont...

SPECIFICATIONS

```
Bidding Requirements, Contract Forms, Conditions
00010
         Solicitation
00100 T
         Instructions to Bidders
00700 T
         Contract Clauses
00750 T
         Rates of Wages
T 00800
         Special Clauses
         DIVISION I - GENERAL REQUIREMENTS
01200 T
         General Requirements
01230 T
         Safety
01300 DS Measurement and Payment
         Sources for Reference Publications
01301 T
01302 T
         Submittal Descriptions
01305 T
         Submittal Procedures
01400 DC Contractors Operations
01430 DC Environmental Protection
         Contractor Quality Control
01440 T
01500 T
         Quality Assurance
         DIVISION 2 - SITE WORK
02100 DC Roadways
02130 DC Care and Diversion of Water
02150 DC Paving and Leveling
02200 G Excavation
02250 G Foundation Treatment
02271 DC Stone Slope Protection
02300 DS Demolition
02500 G Embankment Cofferdam
         DIVISION 3 - CONCRETE
03100 G Formwork for Concrete
03200 G
         Concrete Reinforcement
         Waterstops and Joints in Concrete
03250 G
03300 G
         Concrete
         DIVISION 5 - METALS
05120 DS Structural Steel and Misc. Metal
      DS Metalwork Fabrication and Machine Work
05500
         DIVISION 9 - FINISHES
      DS Painting
09940
          DIVISION 13 - SPECIAL CONSTRUCTION
13080
      DM Seismic Protection for Mechanical and Electrical
      DE Equipment
      HD Instrumentation
13220
         DIVISION 15 - MECHANICAL
15095 DM Sluice Gates and Operators
15099
      DM Fuse Panel
          DIVISION 16 - ELECTRICAL
16050 DE General
16390 DE Transformer
16500 DE Lighting
16920 DE Motor Control Centers
```

	Bŧ	IDGET WORKS	HEET					25-Aug-94
	PR	OJECT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIBILIT	Y STUDY
	TA	SK:	Blue River Plan	ns and Specifi	cations		ORG CODE	
	OF	FICE:	Cost Engineer	ing Branch			CE	
	DI	RECT CHARGES:						
	1) (a. Labor			Amour	•	Staff Average	
			Branch Chief	14	0	Hours	\$53	\$0
			Branch Chief	13	40	Hours	\$48	\$1,920
			Cost Engineer		204	4	\$42	\$8,568
			Cost Engineer		0	Hours	\$36	\$0
			Technician	7/ 9	0	Hours	\$30	\$0
			Secretary	5/6	0	Hours	\$17	\$0
			other		0	Hours	\$O	\$0
	Sul	ototal In-House Di	irect Labor					\$10,488
	2)	Tech Indirect (E	st Rate:)			64.0%		\$6,712
	3)	General Admin (Est Rate:)			27.0%		\$2,832
	TO	TAL LABOR CHA	RGES					\$20,032
	TR	AVEL:						
	4)	Travel & Transpo	rtation					
				Per Deim	2	# Days	\$75	\$150
				Govt Vehicle	200	# Miles	\$0.25	\$50
				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
						_		
	SU	BTOTAL TRAVEL						\$200
	ОТ	HER EXPENSES:						
	5)	Graphics						
	6)	Misc Expenses				_		
				CADD	0	#Hours	\$35	\$0
				Materials		LS		\$50
				Reproduction		LS		\$100
		BTOTAL OTHER I						\$150
	CO	NTRACTS & OTH	IER COE:					
	8)	A/E Contract Pa	•		Amou	_	Staff Average	
l		a. Labor	Principal		32	Hours	\$80	\$2,560
			Project Manag		0	Hours	\$72	\$ 0
			Senior Cost E	•	272	Hours	\$65	\$17,680
Ì			Cost Engineer		0	Hours	\$53	\$O
			Jr Cost Engine	eer	0	Hours	\$36	\$0
			Technician		40	Hours	\$31	\$1,240
			Secretary		32	Hours	\$27	\$864
	l		labor subtotal					\$22,344
		b. Materials				LS		\$200
	'	c. Transportation	on			LS		\$1,000
	1	d. Profit				10.0%		\$2,354
	9)	Other Corps Pa						
-	10)		nent Payments		900000000000000000000000000000000000000			
	SU	BTOTAL CONTRA	ACTS & OTHER	COE				\$25,898
	****	MMARY						
	11)							\$46,280
L	12	Contingency, A	Account 30.A.A	٩.		10%		\$4,628
838388	112) TOTAL FOR	OFFICE					\$50,909

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Blue River Plans and Specifications OFFICE: Cost Engineering Branch HOURS DIRECT LABOR ACTIVITY 14 13 12 11 9 5/6 other Review 8 Coordination 8 8 Meetings A/E D.O. prepare/estimate/negotiate 8 32 A/E D.O. coordinate/review 8 24 Review Advertized Contract Plans & Specs 32 Site visit 12 **MCACES** 80 Finalize Government Cost Estimate 24 0 40 204 0 0 0 0 HOURS A/E LABOR ACTIVITY Prin. PM Sr CE | CE | Jr CE | Tech Secr Management 8 32 8 Review 8 Coordination 8 Meetings Review Plans & Specs & Check Quantities 24 40 12 Site Visit Construction Methods & Narratives 24 Labor Wage Rate Updates 8 Crews 24 140 MCACES & Documentation of Costs 32 8 Review, Check, & Provide Cost Backup Data 32 272 0 40 32 A/E LABOR TOTALS 0 0

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	-		_			·

- 1 A/E delivery order under \$150K

	BUDGET WORKS	HEET					25-Aug-94
	PROJECT:	WILLAMETTE RIVE	R TEMPER	RATUR	E CONTR	OL FEASIBILIT	Y STUDY
	TASK:	Blue River Plans an	d Specific	ations		ORG CODE	
	OFFICE:	Design Branch				DB	
	DIRECT CHARGES:						
	1) a. Labor			Amour	•	Staff Average	\$ Amount
		Branch Chief	14	120	Hours	\$52	\$6,240
		Section Chief	13	0	Hours	\$44	\$0
		Architect/Engineer	12	0	Hours	\$37	\$0
		Architect/Engineer	11	0	Hours	\$34	\$O
		Technician	7/ 9	0	Hours	\$26	\$O
		Secretary	5/6	32	Hours	\$17	\$544
		other		0	Hours	\$12	\$O
	Subtotal In-House D	irect Labor					\$6,784
	2) Tech Indirect (E	st Rate:)			64.0%		\$4,342
	General Admin (27.0%		\$1,832
	TOTAL LABOR CHA	RGES					\$12,957
	TRAVEL:						
	4) Travel & Transpo	rtation			_		
		Pe	r Deim		# Days	\$75	\$ 0
		Govt	Vehicle		# Miles	\$0.25	\$O
			Flight		#Trips	\$250	\$O
		Au	to Rental		#Times	\$35	\$O
							•
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses				1		
			CADD	0	#Hours	\$35	\$0
			aterials		LS		
	CURTOTAL		oduction		LS		\$O
	SUBTOTAL OTHER						30
	CONTRACTS & OTH			_			
	8) A/E Contract Pa			Amou	•	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$O	\$0
	,	Supervisor		0	Hours	\$0	\$0
		Senior Architect/En	gineer	0	Hours	\$0	\$0
		Architect/Engineer	(0.4.0.0	0	Hours	\$0	\$0
	-	Technician / Drafte	r/CADD	0	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$0
		other		0	Hours	\$O	\$O
	. 	labor subtotal			1.0		\$0
	b. Materials				LS		
	c. Transportation	on			LS		\$O
	d. Profit	umanta (am. 05 4 41-)			10.0%		- 30
	•	yments (eg. 2544's)					
	10) Other Governr SUBTOTAL CONTRA	ment Payments (eg.					\$0
		TOTO & OTHER COE					I TO
	SUMMARY	10 . (<u> </u>				1288
	1 '	d Cost for Account	3U.A.		100/		\$12,957
		Account 30.A.A.			10%		\$1,296 \$14,253
	13) TOTAL FOR						

	BUDGET WORKSHEET 25-Aug-94						
	PROJECT:	WILLAMETTE RI	VER TEMPE	RATURE	CONTR	OL FEASIBILIT	Y STUDY
	TASK:	Blue River Plans	and Specific	ations		ORG CODE	
salas antisai	OFFICE:	Civil and Environmen	tal Design Sect	ion		DC	
	DIRECT CHARGES:			_			
	1) a. Labor	December Object		Amoun		Staff Average	
		Branch Chief	14		Hours	\$52	\$0
		Section Chief	13		Hours	\$44	\$1,760
		Architect/Engine			Hours	\$37	\$6,808
		Architect/Engine Technician	er 11 7/9	$\overline{}$	Hours Hours	\$34	\$6,528
		Secretary	7/ 9 5/6		Hours	\$26 \$17	\$7,072 \$510
		other	5/0		Hours	\$17	\$0
	Subtotal In-House D				riours	V12	\$22,678
	2) Tech Indirect (E			ſ	64.0%		\$14,514
	3) General Admin (·			27.0%		\$6,123
	TOTAL LABOR CHA			1	_,,,,,,		\$43,315
	TRAVEL:						
******	4) Travel & Transpo	ortation					
	.,		Per Deim		# Days	\$75	\$0
			ovt Vehicle	<u> </u>	# Miles	\$0.25	\$250
			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$250
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses						
			CADD		#Hours	\$35	\$7,000
	:		Materials		LS		
	SUBTOTAL OTHER I		production		LS		\$7,000
							97,000
	CONTRACTS & OTH 8) A/E Contract Pa			Λ ma 0.1.r	. +	Staff Average	\$ Amount
	a. Labor	Principal		Amour	Hours	\$0	\$ Amount
	a. Laboi	Supervisor			Hours	\$0	\$0
	•	Senior Architect/	Fngineer		Hours	\$0	\$0
		Architect/Engine	-	$\overline{}$	Hours	\$0	\$0
		Technician / Draf		\vdash	Hours	\$0	\$0
		Secretary			Hours	\$0	\$0
		other		0	Hours	\$O	\$0
		labor subtotal				4	\$0
	b. Materials			1	LS		
	c. Transportation	on			LS		
ı	d. Profit			[10.0%		\$0
		yments (eg. 2544					
		nent Payments (e			autoponium manare manare manare manare manare manare manare manare manare manare manare manare manare manare m		
	SUBTOTAL CONTRA	CTS & OTHER C)E				\$0
	SUMMARY						
	=	Cost for Accoun	t 30.A.				\$50,565
		Account 30.A.A.			20%		\$10,113
	13) TOTAL FOR	OFFICE					\$60.678

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Blue River Plans and Specifications OFFICE: Civil and Environmental Design Section **HOURS DIRECT LABOR ACTIVITY** 5/6 other Preparation of the following specifications sections: -Contractors Operations -Environmental Protection -HTW and Solid Waste Mangmt -Roadways -Slope Protection -Paving: Base & Leveling Coarse Contract Review 30% Submittal 60% Submittal 90% Submittal **BCOP** meetings Quantity Computations Assume 5 Plates **HOURS** Prin. Supr. A/E LABOR ACTIVITY Sr AE ΑE T/D Sec. other A/E LABOR TOTALS REMARKS

- site visit labor included in the above

	DRKSHEET			25-Aug-94
PROJECT:	WILLAMETTE RIVER TEMPI	ERATURE CONTR	OL FEASIBILIT	Y STUDY
TASK:	Blue River Plans and Specif	ications	ORG CODE	
OFFICE:	Electrical Design		DD	
DIRECT CHAR	GES:			
1) a. Labor		Amount	Staff Average	\$ Amount
} }	Branch Chief 14	0 Hours	\$52	\$0
	Section Chief 13	44 Hours	\$44	\$1,936
	Architect/Engineer 12	200 Hours	\$37	\$7,400
	Architect/Engineer 11	406 Hours	\$34	\$13,804
	Technician 7/9	372 Hours	\$26	\$9,672
	Secretary 5/6	28 Hours	\$17	\$476
	other	0 Hours	\$12	\$ 0
l l	use Direct Labor			\$33,288
1 1	ect (Est Rate:)	64.0%		\$21,304
	lmin (Est Rate:)	27.0%		\$8,988
TOTAL LABOR	CHARGES			\$63,580
TRAVEL:				
4) Travel & Tr	ansportation			
	Per Deim	2 # Days	\$75	\$150
	Govt Vehicle	800 # Miles	\$0.25	\$200
	Flight	#Trips	\$250	\$0
}	Auto Renta	l #Times	\$35	\$O
SUBTOTAL TR	AVEL			\$350
OTHER EXPEN	SES:			
5) Graphics				\$250
6) Misc Expe				
	CADD	372 #Hours	\$35	\$13,020
	Materials	LS		\$100
	Reproduction	LS		
	HER EXPENSES			\$13,370
CONTRACTS 8	OTHER COE:			
8) A/E Contra	act Payments	Amount	Staff Average	\$ Amount
a. Labor	Principal	0 Hours	\$O	\$0
	Supervisor	0 Hours	\$0	\$0
	Senior Architect/Engineer	0 Hours	\$0	\$0
	Architect/Engineer	1 A 1Haura	\$0	\$0
	<u> </u>	0 Hours		
	Technician / Drafter/CADD	0 Hours	\$0	\$0
	Technician / Drafter/CADD Secretary	0 Hours 0 Hours	\$O	\$0
	Technician / Drafter/CADD Secretary other	0 Hours		\$0 \$0
	Technician / Drafter/CADD Secretary other labor subtotal	0 Hours 0 Hours 0 Hours	\$O	\$0
b. Materia	Technician / Drafter/CADD Secretary other labor subtotal	0 Hours 0 Hours Hours	\$O	\$0 \$0
c. Transpo	Technician / Drafter/CADD Secretary other labor subtotal	0 Hours 0 Hours Hours LS LS	\$O	\$0 \$0 \$0
c. Transpo d. Profit	Technician / Drafter/CADD Secretary other labor subtotal	0 Hours 0 Hours Hours	\$O	\$0 \$0
c. Transpo d. Profit 9) Other Corp	Technician / Drafter/CADD Secretary other labor subtotal Is ortation os Payments (eg. 2544's)	0 Hours 0 Hours Hours LS LS	\$O	\$0 \$0 \$0
c. Transpo d. Profit 9) Other Corp 10) Other Go	Technician / Drafter/CADD Secretary other labor subtotal Is ortation os Payments (eg. 2544's) overnment Payments (eg. 1144's)	0 Hours 0 Hours Hours LS LS	\$O	\$0 \$0 \$0 \$0
c. Transpo d. Profit 9) Other Cor 10) Other Go SUBTOTAL CO	Technician / Drafter/CADD Secretary other labor subtotal Is ortation os Payments (eg. 2544's)	0 Hours 0 Hours Hours LS LS	\$O	\$0 \$0 \$0
c. Transport d. Profit 9) Other Corp 10) Other Go SUBTOTAL CO	Technician / Drafter/CADD Secretary other labor subtotal Is ortation os Payments (eg. 2544's) overnment Payments (eg. 1144's) NTRACTS & OTHER COE	0 Hours 0 Hours Hours LS LS	\$O	\$0 \$0 \$0 \$0 \$0
c. Transpo d. Profit 9) Other Corp 10) Other Go SUBTOTAL CO SUMMARY 11) Total Esti	Technician / Drafter/CADD Secretary other labor subtotal Is ortation Os Payments (eg. 2544's) overnment Payments (eg. 1144's) NTRACTS & OTHER COE	O Hours Hours US LS LS 10.0%	\$O	\$0 \$0 \$0 \$0 \$0 \$0
c. Transpo d. Profit 9) Other Cor 10) Other Go SUBTOTAL CO SUMMARY 11) Total Esti 12) Continger	Technician / Drafter/CADD Secretary other labor subtotal Is ortation os Payments (eg. 2544's) overnment Payments (eg. 1144's) NTRACTS & OTHER COE	0 Hours 0 Hours Hours LS LS	\$O	\$0 \$0 \$0 \$0 \$0

TASK WORKSHEET PROMEOTO: WILLAMETTE RIVER TEMPERATURE CONTROL EEASIBILITY STUDY. TASK: Blue River Plans and Specifications OFFICE: Electrical Design HOURS DIRECT LABOR ACTIVITY 5/6 other Review Coordination and Meetings Site Visits Load Analysis Short-Circuit Analysis Main Feeder Design Branch Circuit Design Motor Control Center Design Lighting Calculations Prepare Drawings One-Line (1) 2 Control Schematics (1) Motor Control Center (1) Plan Views (2) Elevations (2) Sections and Details (2) Conduit and Cable Schedule (1) Prepare Specifications Section 16050 General Section 16390 Transformer Section 16500 Lighting Section 16920 Motor Control Centers **Estimate Quantities** Coordination with OP-V Coordination with Lane Elec **ECIFP** HOURS A/E LABOR ACTIVITY Prin. Supr. Sr AE ΑE T/D Sec. other A/E LABOR TOTALS **REMARKS**

BPS.XLW

BUDGET WORK	SHEET			25-Aug-94
PROJECT:	WILLAMETTE RIVER TEMP	ERATURE CONTR	OL FEASIBILITY	STUDY
TASK:	Blue River Plans and Specif	ications	ORG CODE	
OFFICE:	Mechanical Design		DF	
DIRECT CHARGES) :			
1) a. Labor		Amount	Staff Average	\$ Amount
	Branch Chief 14	0 Hours	\$52	\$0
	Section Chief 13	20 Hours	\$44	\$880
	Architect/Engineer 12	0 Hours	\$37	\$0
	Architect/Engineer 11	508 Hours	\$34	\$17,272
	Technician 7/9	0 Hours	\$26	\$O
	Secretary 5/6	14 Hours	\$17	\$238
	other	0 Hours	\$12	\$0
Subtotal In-House	Direct Labor			\$18,390
2) Tech Indirect		64.0%		\$11,770
3) General Admin	·	27.0%		\$4,965
TOTAL LABOR CH		127.070		\$35,125
				700/120
TRAVEL:				
4) Travel & Transp			,	
	Per Deim	# Days	\$75	\$ 0
	Govt Vehicle		\$0.25	\$75
	Flight	#Trips	\$250	\$0
	Auto Renta	l #Times	\$35	\$ 0
SUBTOTAL TRAVE				\$75
OTHER EXPENSES				
5) Graphics				
· ·			Į.	
6) Misc Expenses				
· ·	CADD	180 #Hours	\$35	\$6,300
· ·	CADD Materials	LS	\$35	\$500
6) Misc Expenses	CADD Materials Reproduction	LS	\$35	\$500 \$500
· '	CADD Materials Reproduction	LS	\$35	\$500
6) Misc Expenses	CADD Materials Reproduction EXPENSES	LS	\$35	\$500 \$500
6) Misc Expenses	CADD Materials Reproduction EXPENSES HER COE:	LS LS	\$35	\$500 \$500
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT	CADD Materials Reproduction EXPENSES HER COE:	LS LS		\$500 \$500 \$7.300
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES HER COE: Payments	LS LS Amount	Staff Average	\$500 \$500 \$7,300 \$ Amount
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor	LS LS Amount O Hours	Staff Average	\$500 \$500 \$7,300 \$ Amount \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer	Amount O Hours O Hours O Hours	Staff Average \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer	Amount O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0 \$0
6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other	Amount O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F a. Labor	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0 \$0
SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F a. Labor b. Materials	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F a. Labor b. Materials c. Transportat	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F a. Labor b. Materials c. Transportat d. Profit	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportat d. Profit 9) Other Corps P	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
b. Materials c. Transportat d. Profit 9) Other Corps P.	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's) ment Payments (eg. 1144's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$7,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportat d. Profit 9) Other Corps P 10) Other Govern	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
b. Materials c. Transportat d. Profit 9) Other Corps P 10) Other Govern SUBTOTAL OTHER	CADD Materials Reproduction EXPENSES HER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's) ment Payments (eg. 1144's) IACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$7,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F a. Labor b. Materials c. Transportat d. Profit 9) Other Corps P 10) Other Govern SUBTOTAL CONTR	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$7,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
SUBTOTAL OTHER CONTRACTS & OT 8) A/E Contract F a. Labor b. Materials c. Transportat d. Profit 9) Other Corps P 10) Other Govern SUBTOTAL CONTR	CADD Materials Reproduction EXPENSES THER COE: Payments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$500 \$500 \$7,300 \$7,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

TASK WORKSHEET							
PROJECT: WILLAMETTE RIVER TEM	PERAT	URE CO	NTRO	L FEAS	SIBILITY	7 STUE	ìΥ
TASK: Blue River Plans and Spec	ification	15					
OFFICE: Mechanical Design							
				HOUR	S		
DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
design gates, operators, security covers		4		64		2	
3 specifications		4		144		8	
4 drawings		4		204			
review/comments	,	8		24		2	
quantities				24			
site visit				8			
meetings				24		2	
ECIFP				16			
	0	20	0	508	0	14	0
	U	20		:0U0			
	I			HOURS			
A/E LABOR ACTIVITY	Prin.	Supr.			T/D	Sec.	athar
A/E LABOR ACTIVITY	Prin.	Supr.	SI AE	AC	1/0	Sec.	other
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A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS	· · ·				,		
HEIMAIING							-
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	SHEET			25-Aug-94
PROJECT:	WILLAMETTE RIVER TEMPE	RATURE CONTR	OL FEASIB <mark>I</mark> LIT	Y STUDY
TASK:	Blue River Plans and Specific	cations	ORG CODE	
OFFICE:	Structural and Architectural	Design	DG	
DIRECT CHARGES):			
1) a. Labor		Amount	Staff Average	\$ Amount
	Branch Chief 14	0 Hours	\$52	\$0
	Section Chief 13	216 Hours	\$44	\$9,504
	Architect/Engineer 12	776 Hours	\$37	\$28,712
	Architect/Engineer 11	320 Hours	\$34	\$10,880
	Technician 7/9	180 Hours	\$26	\$4,680
	Secretary 5/6	72 Hours	\$17	\$1,224
	other	0 Hours	\$12	\$ 0
Subtotal In-House				\$55,000
2) Tech Indirect	•	64.0%		\$35,200
3) General Admin		27.0%		\$14,850
TOTAL LABOR CH	ARGES			\$105,050
TRAVEL:				
4) Travel & Transp	portation			
	Per Deim	4 # Days	\$75	\$300
	Govt Vehicle	400 # Miles	\$0.25	\$100
	Flight	#Trips	\$250	\$0
	Auto Rental	#Times	\$35	\$0
SUBTOTAL TRAVE	E.			\$400
OTHER EXPENSES				<u> </u>
5) Graphics				\$2,500
6) Misc Expenses	S			12,000
'	CADD	136 #Hours	\$35	\$4,760
	Materials	LS		\$5,000
	Reproduction	LS		\$20,000
SUBTOTAL OTHER	EXPENSES			\$32,260
CONTRACTS & OT	HER COE:			
8) A/E Contract I	Pavments	Amount	Staff Average	\$ Amount
a. Labor	Principal	4 Hours	\$115	\$460
	Supervisor	00 112	\$100	
		80 Hours	\$100	\$8,000
	Senior Architect/Engineer	316 Hours	\$100	\$8,000 \$26,860
	Senior Architect/Engineer Architect/Engineer			
	_	316 Hours	\$85	\$26,860
	Architect/Engineer	316 Hours 1638 Hours	\$85 \$61	\$26,860 \$99,918
	Architect/Engineer Technician / Drafter/CADD	316 Hours 1638 Hours 840 Hours	\$85 \$61 \$66	\$26,860 \$99,918 \$55,440
	Architect/Engineer Technician / Drafter/CADD Secretary	316 Hours 1638 Hours 840 Hours 16 Hours	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464
b. Materials	Architect/Engineer Technician / Drafter/CADD Secretary other	316 Hours 1638 Hours 840 Hours 16 Hours	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0
b. Materials c. Transportat	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	316 Hours 1638 Hours 840 Hours 16 Hours O Hours	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142
	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	316 Hours 1638 Hours 840 Hours 16 Hours O Hours	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500
c. Transportat d. Profit 9) Other Corps P	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal cion ayments (eg. 2544's)	316 Hours 1638 Hours 840 Hours 16 Hours O Hours LS LS	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500 \$1,000
c. Transportat d. Profit 9) Other Corps P 10) Other Goverr	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal ion ayments (eg. 2544's) ment Payments (eg. 1144's)	316 Hours 1638 Hours 840 Hours 16 Hours O Hours LS LS	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500 \$1,000 \$19,464
c. Transportat d. Profit 9) Other Corps P 10) Other Goverr SUBTOTAL CONTR	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal cion ayments (eg. 2544's)	316 Hours 1638 Hours 840 Hours 16 Hours O Hours LS LS	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500 \$1,000
c. Transportat d. Profit 9) Other Corps P 10) Other Goverr SUBTOTAL CONTR	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal cion ayments (eg. 2544's) ment Payments (eg. 1144's) EACTS & OTHER COE	316 Hours 1638 Hours 840 Hours 16 Hours O Hours LS LS	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500 \$1,000 \$19,464
c. Transportat d. Profit 9) Other Corps P 10) Other Govern SUBTOTAL CONTR SUMMARY 11) Total Estimate	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal cion ayments (eg. 2544's) nment Payments (eg. 1144's) EACTS & OTHER COE	316 Hours 1638 Hours 840 Hours 16 Hours Hours LS LS LS 10.0%	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500 \$1,000 \$19,464 \$214,106
c. Transportat d. Profit 9) Other Corps P 10) Other Govern SUBTOTAL CONTR SUMMARY 11) Total Estimate	Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal cion ayments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE ed Cost for Account 30.A. Account 30.A.A.	316 Hours 1638 Hours 840 Hours 16 Hours O Hours LS LS	\$85 \$61 \$66 \$29	\$26,860 \$99,918 \$55,440 \$464 \$0 \$191,142 \$2,500 \$1,000 \$19,464

TASK WORKSHEET WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY. PROJECT: TASK: Blue River Plans and Specifications Structural and Architectural Design OFFICE: **HOURS** DIRECT LABOR ACTIVITY 5/6 other review coordination, TM 288I meetings A/E D.O. prepare/estimate/negotiate A/E D.O. coordinate/review agency corespondance/presentations site visit contractor questions, assemble notebooks operations coordination Engineer Considerations and Instructions for F. P. HOURS Prin. Supr. Sr AE T/D Sec. A/E LABOR ACTIVITY ΑE other management review coordination meetings 40 160 5 specification sections detailed design and analysis steel design details water control /diversion plan construction schedule prepare 21 CADD drawings calculate quantities site visit A/E LABOR TOTALS

REMARKS

- 2 A/E delivery orders under \$150k each will be used

	BUDGET WORKS	SHEET					25-Aug-94
Г	PROJECT:	WILLAMETTE RIVER	RTEMPER	RATUR	E CONTROL	FEASIBILIT	Y STUDY
	TASK:	Blue River Plans and	l Specific	ations		ORG CODE	
	OFFICE:	H & H Branch				DK	
	DIRECT CHARGES:						
	1) a. Labor		,	Amour	nt S	taff Average	\$ Amount
		Branch Chief	14	32	Hours	\$52	\$1,664
		Section Chief	13	0	Hours	\$44	\$ 0
		Architect/Engineer	12	0	Hours	\$37	\$0
		Architect/Engineer	11	0	Hours	\$34	\$ 0
		Technician	7/ 9	0	Hours	\$26	\$0
		Secretary	5/6	24	Hours	\$17	\$408
		other		0	Hours	\$12	\$ 0
	Subtotal In-House D	irect Labor					\$2,072
	2) Tech Indirect (E	Est Rate:)			64.0%		\$1,326
	3) General Admin ((Est Rate:)			27.0%		\$559
	TOTAL LABOR CHA	RGES					\$3,958
	TRAVEL:						
	4) Travel & Transpo	ortation					
		Per	Deim		# Days	\$75	\$0
		Govt	Vehicle		# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$0
		Aut	o Rental		#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses				1		
			CADD	0	#Hours	\$35	\$0
			terials		LS		
0000000			duction		LS		
	SUBTOTAL OTHER	EXPENSES					\$0
	CONTRACTS & OTH				_		
	8) A/E Contract Pa	•		Amou	•	taff Average	
	a. Labor	Principal		0	Hours	\$0	\$0
	,	Supervisor		0	Hours	\$0	\$0
		Senior Architect/Eng	gineer	0	Hours	\$0	\$0
		Architect/Engineer		0	Hours	\$0	\$0
		Technician / Drafter	/CADD	0	Hours	\$0	\$0
		Secretary		0	Hours	\$0	\$0
		other		0	Hours	\$0	\$0
		labor subtotal					\$0
	b. Materials				LS LS		
	c. Transportation	on					*0
	d. Profit				10.0%		\$O
		yments (eg. 2544's)	11////				
		ment Payments (eg. 1	1 144 S)				\$0
		ACTO & CTREN CUE					70
	SUMMARY						
	·	d Cost for Account 3	U.A.		100/		\$3,958
gggaana		Account 30.A.A.			10%		\$396
	13) TOTAL FOR	R OFFICE					\$4,353

	BUDGET WO	DRKSHEET			25-Aug-94
	PROJECT:	WILLAMETTE RIVER TEMP	ERATURE CONTRI	OL FEASIBILIT	Y STUDY
	TASK:	Blue River P&S		ORG CODE	
	OFFICE:	Hydraulic Design		DL	
	DIRECT CHAP	RGES:			
	1) a. Labor			Staff Average	\$ Amount
		Branch Chief 14	0 Hours	\$52	\$0
		Section Chief 13	48 Hours	\$44	\$2,112
		Architect/Engineer 12	180 Hours	\$37	\$6,660
ļ		Architect/Engineer 11	408 Hours	\$34	\$13,872
		Technician 7/9	120 Hours	\$26	\$3,120
		Secretary 5/6	0 Hours	\$17	\$0
		other	0 Hours	\$12	\$O
	Subtotal In-Ho	use Direct Labor			\$25,764
ĺ	2) Tech Indir	ect (Est Rate:)	64.0%		\$16,489
	3) General Ad	dmin (Est Rate:)	27.0%		\$6,956
	TOTAL LABOR	CHARGES			\$49,209
	TRAVEL:				
	4) Travel & Tr	ansportation			
		Per Deim	5 # Days	\$75	\$375
		Govt Vehicle	400 # Miles	\$0.25	\$100
		Flight	#Trips	\$250	\$0
		Auto Renta	#Times	\$35	\$0
			<u> </u>		
	SUBTOTAL TR	AVEL			\$475
	OTHER EXPEN	SES:			
	5) Graphics				\$0
	6) Misc Expe				
		CADD	120 #Hours	\$35	\$4,200
		Materials	LS		\$200
B3000000		Reproduction	ı LS		\$200
		HER EXPENSES			\$4,600
	CONTRACTS 8				
		act Payments		Staff Average	\$ Amount
	a. Labor	Principal	0 Hours	\$O	\$0
		Supervisor	0 Hours	\$ 0	\$0
		Senior Architect/Engineer	0 Hours	\$O	\$0
		Architect/Engineer	0 Hours	\$ 0	\$0
		Technician / Drafter/CADD	0 Hours	\$ 0	\$ 0
		Secretary	0 Hours	\$ 0	\$0
		other	0 Hours	\$ 0	\$ 0
		labor subtotal			\$0
	b. Materia	ıls	LS		\$O
	c. Transpo	ortation	LS		\$0
	d. Profit		10.0%		\$O
		ps Payments (eg. 2544's)			\$O
10000 500		overnment Payments (eg. 1144's)			
		NTRACTS & OTHER COE			\$0
	SUMMARY				
	*	mated Cost for Account 30.A.			\$54,284
geograp		ncy, Account 30.A.A.	5%		\$2,714
	13) TOTAL	. FOR OFFICE			\$56,998

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI	PERAT	URE CO	NTRO	LFEAS	IBILIT	STUC	ìΥ
1	TASK: Blue River P&S							
0000000	OFFICE: Hydraulic Design							
	DIDECT I ADOD ACTIVITY	11	T 40		HOURS		1 = =	
	DIRECT LABOR ACTIVITY Diversion	14	13	12	11	9	5/6	other
	Tower		 	20 40		<u> </u>		
	Instrumentation Specification			20	80		-	
	Site Visits			20	20			
	Coordination and Meetings		24	40	40			
	Review		24	40	40		 	
	Instrumentation Drawing		 -		20	40		
7.00	Char. and Hydro. Drawings				40	80		
	(Hydrology support)				40			
	ECIFP				8			
		0	48	180	408	120	0	0
					HOURS			
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
		,						
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	•							
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	A/E LABOR TOTALS	0	0	0	0	0	0	0
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	REMARKS		-					
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	Bŧ	JDGET WORKS	SHEET					25-Aug-94
	PR	OJECT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIBILIT	· · · · · · · · · · · · · · · · · · ·
	TA	SK:	Blue River Plan	ns and Specific	ations		ORG CODE	
	OF	FICE:	Geotechnical E	Engineering			CJ	
	DI	RECT CHARGES:						
	1) :	a. Labor			Amoun	t	Staff Average	\$ Amount
			Branch Chief	14		Hours	\$52	\$5,512
			STL	13		Hours	\$44	\$13,640
			Geol/Engr -Sci			Hours	\$37	\$23,828
ĺ			Geol/Engr -Sci			Hours	\$34	\$14,076
			Technician	7/9	136	Hours	\$26	\$3,536
			Secretary	5/6	50	Hours	\$17	\$850
l	l		other		0	Hours	\$12	\$O
		btotal In-House D						\$61,442
	2)	Tech Indirect (E	· ·			64.0%		\$39,323
	3)	General Admin (27.0%		\$16,589
		TAL LABOR CHA	RGES					\$117,354
		AVEL:						
	4)	Travel & Transpo	ortation					
				Per Diem	4	# Days	\$75	\$300
				Govt Vehicle	2400	# Miles	\$0.25	\$600
ł				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
	CII	BTOTAL TRAVEL						
	(1 to (2 0 t) to							\$900
		HER EXPENSES:						
	5)	Graphics						L
	6)	Misc Expenses		CADD	126	#Hours	\$35	\$4,760
				CADD	1 1.50	#nours	930	1 94,/00
						10	<u> </u>	
				Materials	1	LS		\$50
	SH	RTOTAL OTHER I			1	LS LS		\$50
		BTOTAL OTHER I	EXPENSES	Materials	1			
	СО	NTRACTS & OTH	EXPENSES IER COE:	Materials	1	LS	Stoff Average	\$50 \$4,810
		NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments	Materials	Amou	LS	Staff Average	\$50 \$4,810 \$ Amount
	СО	NTRACTS & OTH	EXPENSES IER COE: ayments Principal	Materials	Amou	nt Hours	\$O	\$4,810 \$4,810 \$ Amount \$0
	СО	NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor	Materials Reproduction	Amou	nt Hours Hours	\$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0
	СО	NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: Byments Principal Supervisor Senior Geol/En	Materials Reproduction	Amou O O	nt Hours Hours Hours	\$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0
	СО	NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie	Materials Reproduction gr-Scien	Amou 0 0 0 0 0	nt Hours Hours Hours Hours	\$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0
	СО	NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie Technician / D	Materials Reproduction gr-Scien	Amou	nt Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0
	СО	NTRACTS & OTH A/E Contract Pa	EXPENSES JER COE: Terministry Supervisor Senior Geol/En Geol/Engr-Scie Technician / D Secretary	Materials Reproduction gr-Scien	Amou 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0 \$0
	СО	NTRACTS & OTH A/E Contract Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie Technician / Di Secretary other	Materials Reproduction gr-Scien	Amou 0 0 0 0 0	nt Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$50 \$4.810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CO (8)	NTRACTS & OTH A/E Contract Pa a. Labor	EXPENSES JER COE: Terministry Supervisor Senior Geol/En Geol/Engr-Scie Technician / D Secretary	Materials Reproduction gr-Scien	Amou 0 0 0 0 0 0 0 0	Hours Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0 \$0
	CO (8)	NTRACTS & OTH A/E Contract Pa a. Labor	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie Technician / D Secretary other labor subtotal	Materials Reproduction gr-Scien	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$50 \$4.810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) 8)	NTRACTS & OTH A/E Contract Pa a. Labor	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie Technician / D Secretary other labor subtotal	Materials Reproduction gr-Scien	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$50 \$4.810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) 	NTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/En Geol/Engr-Scie Technician / D Secretary other labor subtotal	Materials Reproduction gr-Scien n rafter/CADD	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) 8)	MTRACTS & OTH A/E Contract Pa a. Labor b. Materials c. Transportation d. Profit Other Corps Pa	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/Engr-Scie Technician / Di Secretary other labor subtotal on	Materials Reproduction gr-Scien n rafter/CADD	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	8) 9) 10)	b. Materials c. Transportation d. Profit Other Corps Par	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/Engr-Scie Technician / D Secretary other labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction gr-Scien n rafter/CADD	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$4,810 \$4,810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	9) 10)	b. Materials c. Transportation d. Profit Other Corps Par	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/Engr-Scie Technician / D Secretary other labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction gr-Scien n rafter/CADD	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$50 \$4.810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	9) 10) SUI	b. Materials c. Transportation d. Profit Other Corps Pare	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/Engr-Scie Technician / D Secretary other labor subtotal on yments (eg. 254 ment Payments ACTS & OTHER	Materials Reproduction gr-Scien n rafter/CADD 44's) (eg. 1144's) COE	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$4.810 \$4.810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	9) 10)	b. Materials c. Transportation d. Profit Other Corps Par Other Government Contract MMARY Total Estimated	EXPENSES IER COE: ayments Principal Supervisor Senior Geol/Engr-Scie Technician / D Secretary other labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction gr-Scien n rafter/CADD 44's) (eg. 1144's) COE	Amou 0 0 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$50 \$4.810 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0

TASK WORKSHEET PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY TASK: Blue River Plans and Specifications OFFICE: Geotechnical Engineering **HOURS DIRECT LABOR ACTIVITY** 5/6 other Meetings & Coordination Review Existing Data Design and Analysis Prepare 7 Specifications Prepare 2 Contract Drawings Calculate Quantities Interim Reviews/Revisions Site Visits **ECIFP** Review Constr. Schedule Response to Review Comments HOURS Prin. Supr. Sr AE AE A/E LABOR ACTIVITY T/D Sec. other A/E LABOR TOTALS REMARKS

BPS:XLW

	BUDGET WORKS	SHEET				25-Aug-94
Г	PROJECT:	WILLAMETTE RIVER TEN	IPERATURE	CONTROL	FEASIBILITY	'STUDY
l	TASK:	Blue River Plans and Spe	cifications		ORG CODE	
	OFFICE:	Fish and Wildlife			EN	
	DIRECT CHARGES:					
	1) a. Labor		Amount	Sta	aff Average	\$ Amount
		Branch Chief 14	0 1	Hours	\$52	\$ 0
		Section Chief 13	4	Hours	\$44	\$176
		Architect/Engineer 12	196	Hours	\$37	\$7,252
		Architect/Engineer 11	0 1	Hours	\$34	\$O
		Technician 7/ 9	0 1	Hours	\$26	\$O
		Secretary 5/6	5 O I	Hours	\$17	\$O
ĺ		other	0 1	Hours	\$12	\$O
	Subtotal In-House D	irect Labor		•		\$7,428
	2) Tech Indirect (E	est Rate:)	[e	64.0%		\$4,754
	3) General Admin (Est Rate:)	12	27.0%		\$2,006
	TOTAL LABOR CHA	RGES				\$14,187
	TRAVEL:					
00000000	4) Travel & Transpo	ortation				
	.,	Per Dein	1 2 #	# Days	\$75	\$150
		Govt Vehi	<u> </u>	# Miles	\$0.25	\$150
		Fligh		#Trips	\$250	\$0
		Auto Rer		#Times	\$35	\$O
		, 1010 1101			,,,,,	
	SUBTOTAL TRAVEL					\$300
	OTHER EXPENSES:					
	5) Graphics					
	6) Misc Expenses					
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CADI	0 0 #	#Hours [\$35	\$0
		Materials		.S		
		Reproducti		.S		
	SUBTOTAL OTHER					\$O
	CONTRACTS & OTH					
	8) A/E Contract Pa		Amoun	+ 9+	aff Average	\$ Amount
1	a. Labor	Principal		Hours	\$0	\$O
	a. Labor	Supervisor		Hours	\$0	\$O
	,	Senior Architect/Engineer		Hours	\$0	\$O
		Architect/Engineer		lours	\$0	\$O
		Technician / Drafter/CAD		Hours	\$0	\$O
		Secretary	<u> </u>	Hours	\$0	\$O
		other		Hours	\$0	\$O
		labor subtotal	<u> </u>	louis [\$ 0
	b. Materials	labol Subtotal	1	_S		<u> </u>
	c. Transportation	nn		-S		
	d. Profit	511	_	10.0%		\$0
[yments (eg. 2544's)	Ľ	//		**
		ment Payments (eg. 1144)	s)			
	SUBTOTAL CONTRA		<u> </u>			\$0
S00000						
	SUMMARY	10-44-3			-	1211
	,	d Cost for Account 30.A.	Г	100/		\$14,487
		Account 30.A.A.		10%		\$1,449
	13) TOTAL FOR	ROFFICE				\$15,936

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEN TASK: Blue River Plans and Spe OFFICE: Fish and Wildlife			ONTRO	L FEAS	IBILITY	STUD	Υ
					HOURS	5	*****************	****************
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	internal coordination meetings		1	20				
	agency coordination meetings		1	20				
	develop measures to reduce fish impacts		1	20				
	site visits		1	16				
	Site Visits	 	<u> </u>	10				
	Cultural Resources	1						
	-write monitoring contract SOW			40				
	-coordinate (SHPO, Native Americans,)			80				
		0	4	196	0	0	0	0
	: *		r <u> </u>		HOURS			
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
		+						
-								
	,	ļ <u>.</u>						
		_						
		+						
		 						
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	INIT ENDOIT I O INTO			.	•		~	
	DEMARKO							
	REMARKS							
	Monitoring costs of \$70K, curation costs of \$8	K, and n	nitigatio	on cost	s of \$7	5K inc	luded ii	n BCE.

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	Bl	JDGET WORKS	SHEET					25-Aug-94
	PR	OJECT:	WILLAMETTE	RIVER TEMPE	RATUF	RE CONTR	OL FEASIBILIT	Y STUDY
	TA	SK:	Blue River PS				ORG CODE	
	********	FICE:	Technical Reso	ources Branch			CR	
	DI	RECT CHARGES:						
	1)	a. Labor			Amou	_	Staff Average	\$ Amount
			Branch Chief	14	0	Hours	\$52	\$ 0
			Section Chief	13	24	Hours	\$44	\$1,056
			Architect/Engir		38	Hours	\$37	\$1,406
	İ		Architect/Engir	neer 11	81	Hours	\$34	\$2,754
			Technician	7/ 9	412	Hours	\$26	\$10,712
l			Secretary	5/6	52	Hours	\$17	\$884
			Stay-In-School	3/4	60	Hours	\$12	\$720
	Sul	btotal In-House Di	rect Labor					\$17,532
İ	2)	Tech Indirect (E	st Rate:)			64.0%		\$11,220
	3)	General Admin (27.0%		\$4,734
	ТО	TAL LABOR CHA	RGES					\$33,486
	TR	AVEL:						
	4)	Travel & Transpo	rtation					
				Per Deim	0	# Days	\$75	\$0
			•	Govt Vehicle	0	# Miles	\$0.25	\$O
				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
						-		
	SU	BTOTAL TRAVEL						\$0
	ОТ	HER EXPENSES:						
	5)	Graphics						\$0
	6)	Misc Expenses				_		
1				CADD	0	#Hours	\$35	\$0
				Materials		LS		\$0
				Reproduction		LS		\$5,000
	10,707,00	BTOTAL OTHER E						\$5,000
	April Street	NTRACTS & OTH						
	8)	A/E Contract Pa	•		Amou	-	Staff Average	\$ Amount
		a. Labor	Principal		0	Hours	\$0	\$ 0
		•	Supervisor		0	Hours	\$0	\$O
			Senior Architec		0	Hours	\$O	\$ 0
			Architect/Engin		0	Hours	\$0	\$ 0
			Technician / Dr	after/CADD	0	Hours	\$O	\$O
			Secretary		0	Hours	\$O	\$O
			other		0	Hours	\$O	\$ 0
			labor subtotal					\$0
		b. Materials				LS		\$O
		c. Transportatio	n			LS		\$O
	(d. Profit				10.0%		\$O
	9)	Other Corps Pay	_					
	10)		nent Payments					
	SU	BTOTAL CONTRA	CTS & OTHER	COE				\$0
	SUI	MMARY						
	11)	Total Estimated	Cost for Accou	unt 30.A.				\$38,486
	12)	Contingency, A	ccount 30.A.A.	•		10%		\$3,849
	13) TOTAL FOR	OFFICE					\$42,335

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEMI			NIHU	L FEAS	IBILI I Y	รเบย	Y
	TASK: Blue River Plans and Speci OFFICE: Technical Resources Brand		15					
	OFFICE: FECUNICAL RESOURCES BIRING	3) 			HOURS	<u> </u>		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	3/4
	CR CR	14	13	12	11	9	3/0	3/4
	3 A/E delivery orders		24		81	396	24	60
	O A/L delivery orders		27		0,	000	27	- 00
	CQ							
	BCOP (see also PE-D, CT, CO)			30			28	
	200. 1000 tileo i 2 27 0 17 0 0 7			- 00				
	CP							
	BCOP (VE)			8				
	budget management					16		
		0	24	38	81	412	52	60
					<u>9</u>			
					HOURS			
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/L LADON ACTIVITY		oup	01 7 (2	712	.,,	000.	o cirio:
-								
		_						
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						F044500000	tara a santa a santa a santa a santa a santa a santa a santa a santa a santa a santa a santa a santa a santa a	
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS	<del></del>			• •			
	ILIVIAIRO							

- 3 A/E delivery orders under \$150K each will be supported

	BUDGET WORKS	SHEET					9-Nov-94
	PROJECT:	WILLAMETTE	RIVER TEMPER	RATUR	E CONTRO	OL FEASIBILIT	Y STUDY
	TASK:	Blue River Pla	ns and Specific	etions		ORG CODE	
	OFFICE:	Real Estate				BU	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt	Staff Average	\$ Amount
		Division Ch.	13	20	Hours	\$42	\$840
		Branch Ch.	12	80	Hours	\$36	\$2,840
		Attorney	13	80	Hours	\$39	\$3,080
		ŕ		0	Hours	\$O	\$0
		Technician	11	18	Hours	\$33	\$585
		Secretary	5/6	20	Hours	\$17	\$330
		other	., .	0	Hours	\$0	\$0
	  Subtotal In-House D				1.100.0		\$7,675
	2) Tech Indirect (E				68.0%		\$5,219
	3) General Admin (				18.0%		\$1,381
	TOTAL LABOR CHA				110.070		\$14,275
		GEG					1 014/2/2
	TRAVEL:						
	4) Travel & Transpo	ortation	Per Diem		l 4 D		- 40
				0	# Days	\$75	\$0
ľ			Govt Vehicle	800	# Miles	\$0.25	\$200
			Flight		#Trips	\$250	\$0
			Auto Rental	<u> </u>	#Times	\$35	\$O
	SUBTOTAL TRAVEL						\$200
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses						
			CADD	0	#Hours	\$35	\$O
			Materials	1	LS		\$0
			Reproduction	_	LS		\$25
	SUBTOTAL OTHER I	EXPENSES					\$25
*****	CONTRACTS & OTH						
	8) A/E Contract Pa			Amou	nt	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
	a. Luboi	Supervisor		0	Hours	\$0	\$0
	,	Senior Geol/Er	ar-Scien	0	Hours	\$0	\$0
		Geol/Engr-Scie	-	0	Hours	\$0	\$0
		Technician / D		0	Hours	\$0	\$0 \$0
			narter/CADD	0	Hours	\$0	\$0
		Secretary other		0	Hours	\$0	\$0
		labor subtotal			nours	\$0	
	b. Materials	ומטטו שטנטנמו			LS		\$0
	c. Transportation	nn.			LS		
	d. Profit	711			10.0%		\$O
	9) Other Corps Pa	vmente lea 25	.44'e)		10.0%		70
	· · · · · · · · · · · · · · · · · · ·	nent Payments					
	SUBTOTAL CONTRA						\$0
	SUMMARY	<u></u>					
	11) Total Estimated	d Cost for Acco	ount 30 A				\$14,500
	12) Contingency, A				10%		\$1,500
	13) TOTAL FOR		••		1970		\$16,000
	III JI I U I ML TUF		oceanista com a retentar de la cida de la cida de la cida de la cida de la cida de la cida de la cida de la ci			anastasanti sutadi ili ili ili ili ili ili	

	TASK WORKSHE								
	PROJECT: TASK:	WILLAMETTE RIVER TEMI	MPERATURE CONTROL FEASIBILITY STUDY						
	TASK:	Blue River Plans and Speci	ification	าร					
2000 2000 2000 2000 2000 2000 2000 200	OFFICE:	Real Estate	Ι						
	DIRECT LABOR ACT	'I\/I <b>T</b> V	12	10		HOURS		L E /A	I _ 41
		op MOU with Forest Service	13 20	12 80	13 80		11 18	5/6 20	other
	gottato una devel	op or with rolest orivice	-20	30	30	<del> </del>	10	20	
				<del> </del>		<u> </u>			<b></b>
	·			<u> </u>				<u> </u>	
			<u></u>					<b> </b>	<b></b>
· ···-									<b> </b>
			20	80	80	0	18	20	0
						HOURS			
	A/E LABOR ACTIVIT	Y	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/E EADON ACTIVIT	-		Jupi.	5. AL		1/5	000.	CUICI
	•								
	A/E LABOR TOTALS		0	0	0	0	0	0	0
	A/E LABUR TUTALS		0	U	U	U	0	U	U
0000000									
	REMARKS	J							
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	LINE						
PROJECT:						DATE I	PREPARED:
Blue River T	emperatu	e Contr	ol				8/29/94
SUBPRODUCT TITLE:						SUBPR	ODUCT #/WBS ID
Engineering : TECHNICAL MANAGER:				COP/COPT)	DY MAN		CBMI _
Karl Swanson	NPP-P		Doug Cl		DY MAN	AGER:	OFFICE/OBS:
SUBPRODUCT SUMMARY D						<del>-</del> -	NFF-FIVI
- PMP Worksheet (summary, to - Specific product outline (plate - Individual office Budget and	s, text, dr	awings,		<del>tions) -</del>	u/a		
UPWARD REPORTED MILESTONES DATE		INTER MILES	NAL STONES		DATE	% COMP	COMMITMENT TO SCOPE, BUDGET,
							AND SCHEDULE:
	FY02	FY03	FY04	FY05	FY06	TOTAL	
CONSTRUCTION COST							
					NGENCY		
					R. COST		
DACEL DIE ALLOCATION *	0.2 109	0.3 <b>164</b>		0.2 <b>109</b>	0.1 <b>55</b>	545	
BASELINE ALLOCATION *	109	104	103	<u> </u>	NGENC	82	1
			TOTA	L ESTIN		627	
Submitted:			Approv				
(Technical Manager)	(Da				t\Study M		(Date)

^{*} Allocation does not include Contingency, and is the approved budget amount.

## PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS Swanson

**TASK: Blue River Engineering During Construction** 

	Office	Org			COSTS			
Organization	Symbol	Cod	Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$15,952	\$400	\$O	\$O	\$1,635	\$17,988
Design Branch	PE-D	DB	\$10,834	\$0	\$O	\$O	\$1,083	\$11,917
Civil/Land. Design	PE-DC	DC	\$21,881	\$125	\$1,680	\$O	\$4,737	\$28,423
Electrical Design	PE-DE	DD	\$32,623	\$2,350	\$2,280	\$0	\$7,451	\$44,703
Mechanical Design	PE-DM	DF	\$6,066	\$150	\$1,560	\$O	\$778	\$8,554
Struct/Arch Des.	PE-DS	DG	\$144,786	\$2,000	\$17,550	\$O	\$32,867	\$197,203
H & H Branch	PE-H	DK	\$8,450	\$0	\$0	\$O	\$845	\$9,295
Hydraul. Design	PE-HD	DL	\$37,933	\$2,375	\$O	\$O	\$2,015	\$42,323
Res. Regulation	PE-HR	DR	\$20,888	\$O	\$500	\$O	\$4,278	\$25,665
Hydrology	PE-HY	DN	\$33,830	\$150	\$200	\$O	\$6,836	\$41,016
Geotech Branch	PE-G	CJ	\$120,383	\$2,225	\$2,850	\$O	\$12,546	\$138,004
Economics	PE-PE	ED	\$0	\$0	\$O	\$O	\$O	\$O
Fish & Wldlf	PE-RR	EN	\$30,957	\$3,500	\$0	\$10,000	\$4,446	\$48,903
Environmental	PE-RP	EM	\$0	\$0	\$0	\$O	\$O	\$O
Tech. Branch	PE-T		\$1,497	\$0	\$500	\$O	\$200	\$2,197
Project	OP-V	JB	\$0	\$0	\$0	\$O	\$O	\$0
Real Estate	RE-AP	BU	\$8,575	\$200	\$25	\$O	\$1,200	\$10,000
Contract Admin	CT-C	NG	\$0	\$0	\$0	\$O	\$O	\$0
Contract Procuremen	CT-P	ND	\$0	\$0	\$O	\$O	\$O	<b>\$</b> 0
Construction	CO-SC	FE	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS			\$494,654	\$13,475	\$27,145	\$10,000	\$80,916	\$626,191

	BUDGET WORKS	SHEET					29-Aug-94
П	PROJECT:	WILLAMETTE	RIVER TEMPE	RATURE	CONTRO	L FEASIBIL	JTY STUDY
	TASK:	Blue River ED0	3			ORG CODE	
•	OFFICE:	Cost Engineeri	ng Branch			CE	
	DIRECT CHARGES:						
Г	1) a. Labor			Amount		Staff Average	ge \$ Amount
		<b>Branch Chief</b>	14	0	Hours	\$53	\$0
	1	Branch Chief	13		Hours	\$48	\$2,304
		Cost Engineer	12	144	Hours	\$42	\$6,048
l		Cost Engineer	11	0	Hours	\$36	\$O
		Technician	7/ 9		Hours	\$30	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$O	\$O
	Subtotal In-House D	irect Labor		<u> </u>		<u> </u>	\$8,352
	2) Tech Indirect (E	Est Rate:)		Г	64.0%		\$5,345
	3) General Admin (	(Est Rate:)			27.0%		\$2,255
	TOTAL LABOR CHA	•					\$15,952
	TRAVEL:						
	4) Travel & Transpo	ortation					
	Travel & Transpo	rtation	Per Deim	4	# Days	\$75	\$300
			Govt Vehicle		# Days # Miles	\$0.25	\$100
	:		Flight			\$250	
			•		#Trips		\$0
			Auto Rental	i	#Times	\$35	\$0
	SUBTOTAL TRAVEL						\$400
2000000	OTHER EXPENSES:						
	5) Graphice						i i
	5) Graphics						
	<ul><li>5) Graphics</li><li>6) Misc Expenses</li></ul>		CADD		#Hours	625	ė o
	·		CADD Materials		#Hours	\$35	\$0
	·		Materials		LS	\$35	\$0
	6) Misc Expenses					\$35	
	6) Misc Expenses  SUBTOTAL OTHER I	EXPENSES	Materials		LS	\$35	\$0 \$0
	6) Misc Expenses SUBTOTAL OTHER I	EXPENSES IER COE:	Materials		LS LS		\$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES IER COE: ayments	Materials	Amour	LS LS nt S	Staff Average	\$8 ge \$ Amount
	6) Misc Expenses SUBTOTAL OTHER I	EXPENSES HER COE: ayments Principal	Materials Reproduction	Amour	LS LS nt S Hours	Staff Average \$0	ge \$ Amount \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES IER COE: ayments Principal Project Manag	Materials Reproduction	Amour	LS LS nt S Hours	Staff Average \$0 \$0	\$0 ge \$ Amount \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Project Manag Senior Cost En	Materials Reproduction	Amour 0 0	LS LS nt S Hours Hours Hours	\$0 \$0 \$0	\$0 ge
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer	Materials Reproduction er egineer	Amour	LS LS  nt S Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer  Jr Cost Engine	Materials Reproduction er egineer	Amour 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LS LS  int S Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer  Jr Cost Engine  Technician	Materials Reproduction er egineer	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	LS LS  ht S Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  HER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer  Jr Cost Engine  Technician  Secretary	Materials Reproduction er egineer	Amour 0 1 0 1 0 1 0 1 0 1 0 1	LS LS  int S Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER    CONTRACTS & OTH  8) A/E Contract Pa  a. Labor	EXPENSES  IER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer  Jr Cost Engine  Technician	Materials Reproduction er egineer	Amour  0   0   0   0   0   0   0   0   0   0	LS LS  It S Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	SUBTOTAL OTHER I CONTRACTS & OTH B) A/E Contract Pa a. Labor b. Materials	EXPENSES IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal	Materials Reproduction er egineer	Amour 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LS LS  Int S Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	6) Misc Expenses  SUBTOTAL OTHER I  CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  b. Materials c. Transportation	EXPENSES IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal	Materials Reproduction er egineer	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	6) Misc Expenses  SUBTOTAL OTHER:  CONTRACTS & OTHER:  8) A/E Contract Para a. Labor  b. Materials c. Transportation d. Profit	EXPENSES  HER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer  Jr Cost Engine  Technician  Secretary  labor subtotal	Materials Reproduction er egineer er	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS  Int S Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	6) Misc Expenses  SUBTOTAL OTHER I  CONTRACTS & OTH  8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit  9) Other Corps Par	EXPENSES  IER COE:  ayments  Principal  Project Manag  Senior Cost En  Cost Engineer  Jr Cost Engine  Technician  Secretary  labor subtotal  on  yments (eg. 25-	Materials Reproduction  er er egineer er	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	SUBTOTAL OTHER I CONTRACTS & OTH B) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governry	EXPENSES  IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction er er egineer er (44's) (eg. 1144's)	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	6) Misc Expenses  SUBTOTAL OTHER I  CONTRACTS & OTH  8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit  9) Other Corps Par	EXPENSES  IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction er er egineer er (44's) (eg. 1144's)	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	SUBTOTAL OTHER I CONTRACTS & OTH B) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governry	EXPENSES  IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction er er egineer er (44's) (eg. 1144's)	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	SUBTOTAL OTHER I CONTRACTS & OTH B) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr SUBTOTAL CONTRA SUMMARY	EXPENSES  IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal on yments (eg. 25- ment Payments	Materials Reproduction er er egineer er (44's) (eg. 1144's)	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	SUBTOTAL OTHER I CONTRACTS & OTH- 8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pa 10) Other Governr SUBTOTAL CONTRA SUMMARY  11) Total Estimated	EXPENSES IER COE: ayments Principal Project Manag Senior Cost En Cost Engineer Jr Cost Engine Technician Secretary labor subtotal on yments (eg. 25- ment Payments ACTS & OTHER	Materials Reproduction  er er egineer er  44's) (eg. 1144's) COE	Amour 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEM	PERAT	URE C	ONTRO	L FEA	SIBILIT	Y STU	DΥ
	TASK: Blue River EDC							
	OFFICE: Cost Engineering Branch	T			HOURS	<u> </u>		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Review	'-	8	- '-	<del></del>	<del>                                     </del>	3/0	OUIEI
	Coordination	†	8					
	Contract Modifications Plans & Spec	†	16	24				
	MCACES Costs			32				
	Labor, Equipment & Material Costs			24				
	Contract Mod/Claim Impact CO support			32				
	Construction Site Inspection(s)		16	32				
		ļ						
		agas formation and		Constant Control Manage	Marketine			
		0	48	144	0	0	0	0
					0.1			
					HOURS			
	A/E LABOR ACTIVITY	Prin.	PM	Sr CE	CE	Jr CE	Tech	Sec
					·			
	A/E LABOR TOTALS	0	0	0	0	0	0	0
1000000000								
	REMARKS							
	REMARKS							

BEDC.XLW

	BUD	GET WORKS	HEET					26-Aug-94
	PROL	JECT:	WILLAMETTE	RIVER TEMPE	RATUR	E CONTR	OL FEASIB	
	TASE	C	Blue River EDC				ORG CODE	Ī
	OFFI	CE:	Design Branch				DB	1
	DIRE	CT CHARGES:						
	1) a.	Labor			Amour	•	Staff Avera	age \$ Amount
İ			Branch Chief	14	96	Hours	\$52	\$4,992
			Section Chief	13	0	Hours	\$44	\$0
			Architect/Engir		0	Hours	\$37	\$0
			Architect/Engir	neer 11	0	Hours	\$34	\$0
			Technician	7/ 9	0	Hours	\$26	\$0
			Secretary	5/6	40	Hours	\$17	\$680
			other		0	Hours	\$12	\$0
	Subto	otal In-House Di	rect Labor					\$5,672
	2)	Tech Indirect (E	st Rate:)			64.0%		\$3,630
	3) G	General Admin (	Est Rate:)			27.0%		\$1,531
	TOTA	AL LABOR CHAI	RGES					\$10,834
	TRAV	/EL:						
	4) Tr	ravel & Transpo	rtation					
				Per Deim		# Days	\$75	\$0
				Govt Vehicle		# Miles	\$0.25	\$0
				Flight		#Trips	\$250	\$0
				Auto Rental		#Times	\$35	\$0
							<u> </u>	
	SUBT	OTAL TRAVEL						\$0
	OTHE	R EXPENSES:						
	5) G	Graphics						
	5) G							
	5) G	Graphics		CADD	0	#Hours	\$35	\$0
	5) G	Graphics		Materials	0	LS	\$35	\$0
	5) G 6) I	Graphics Misc Expenses			0		\$35	
	5) G 6) I	Graphics Misc Expenses OTAL OTHER E	XPENSES	Materials	0	LS	\$35	\$0
	5) G 6) I SUBT	Graphics Misc Expenses  OTAL OTHER E	EXPENSES ER COE:	Materials	0	LS	\$35	
	5) G 6) I SUBT	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa	ER COE:	Materials	O Amou	LS LS	\$35 Staff Avera	\$0 age \$ Amount
	5) G 6) I SUBT	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor	EXPENSES ER COE: lyments Principal	Materials	Amou	LS LS nt Hours		\$0
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor	EXPENSES ER COE:  yments Principal Supervisor	Materials Reproduction	Amou 0	LS LS nt Hours Hours	Staff Avera	\$0 age \$ Amount
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor	EXPENSES ER COE: Tyments Principal Supervisor Senior Archited	Materials Reproduction	Amou	LS LS nt Hours Hours Hours	Staff Avera \$0 \$0 \$0	\$0 age \$ Amount \$0 \$0 \$0
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor	ER COE:  yments  Principal  Supervisor  Senior Archited  Architect/Engir	Materials Reproduction ct/Engineer	Amou 0	nt Hours Hours Hours Hours	\$0 \$0 \$0 \$0	\$0 age \$ Amount \$0 \$0
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor	EXPENSES ER COE: Tyments Principal Supervisor Senior Archited	Materials Reproduction ct/Engineer	Amou 0 0	nt Hours Hours Hours Hours Hours	Staff Avera \$0 \$0 \$0	\$0 age \$ Amount \$0 \$0 \$0
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor	ER COE:  yments  Principal  Supervisor  Senior Archited  Architect/Engir	Materials Reproduction ct/Engineer	Amou 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor	ER COE:  syments  Principal  Supervisor  Senior Architect  Architect/Engir  Technician / Dr  Secretary  other	Materials Reproduction ct/Engineer	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor	ER COE:  yments Principal Supervisor Senior Architect Architect/Engir Technician / Dr Secretary	Materials Reproduction ct/Engineer	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I SUBT CON1	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials	ER COE:  yments  Principal  Supervisor  Senior Architect  Architect/Engir  Technician / Dr  Secretary  other  labor subtotal	Materials Reproduction ct/Engineer	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I SUBT CON1 8) / a. b. c.	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio	ER COE:  yments  Principal  Supervisor  Senior Architect  Architect/Engir  Technician / Dr  Secretary  other  labor subtotal	Materials Reproduction ct/Engineer	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I  SUBT CONT 8) / a.  b. c. d.	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit	ER COE:  syments  Principal  Supervisor  Senior Architect  Architect/Engir  Technician / Dr  Secretary  other  labor subtotal	Materials Reproduction  ct/Engineer neer rafter/CADD	Amou 0 0 0 0	nt Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I SUBT CONT 8) A a. c. d. 9) (	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit  Other Corps Pay	EXPENSES ER COE:  lyments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal  m /ments (eg. 254	Materials Reproduction  ct/Engineer neer rafter/CADD	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I  SUBT CONT 8) A a.  b. c. d. 9) (10)	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit  Other Corps Pay  Other Government	EXPENSES ER COE:  Tyments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal  The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254)	Materials Reproduction  ct/Engineer neer rafter/CADD	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I  SUBT CONT 8) A a.  b. c. d. 9) (10)	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit  Other Corps Pay	EXPENSES ER COE:  Tyments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal  The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254) The comments (eg. 254)	Materials Reproduction  ct/Engineer neer rafter/CADD	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I  SUBT CON1 8) A a.  c. d. 9) G 10) SUBT	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit Other Corps Pay Other Governm  OTAL CONTRA	EXPENSES ER COE:  lyments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal  m ments (eg. 254 nent Payments CTS & OTHER	Materials Reproduction  ct/Engineer neer rafter/CADD	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I  SUBT CON1 8) A a.  c. d. 9) G 10) SUBT	Graphics Misc Expenses  OTAL OTHER E  FRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit Other Corps Pay Other Government	EXPENSES ER COE:  lyments Principal Supervisor Senior Architect/Engir Technician / Dr Secretary other labor subtotal  m ments (eg. 254 nent Payments CTS & OTHER	Materials Reproduction  ct/Engineer neer rafter/CADD	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	5) G 6) I  SUBT CON1 8) / a.  b. c. d. 9) ( 10) SUBT SUMI	Graphics Misc Expenses  OTAL OTHER E  TRACTS & OTH  A/E Contract Pa  Labor  Materials  Transportatio  Profit Other Corps Pay Other Governm  OTAL CONTRA	EXPENSES ER COE:  Tyments Principal Supervisor Senior Architect Architect/Engir Technician / Dr Secretary other labor subtotal  The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The comments (eg. 254 The	Materials Reproduction  ct/Engineer neer rafter/CADD  14's) (eg. 1144's) COE	Amou 0 0 0 0	LS LS nt Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

	BUDGET WORKS	SHEET			26-Aug-94
	PROJECT:	WILLAMETTE RIVER TEMPE	RATURE CONTR	OL FEASIBILITY	Y STUDY
	TASK:	Blue River EDC		ORG CODE	
	OFFICE:	Civil and Environmental Design Sec	stion	DC	
	DIRECT CHARGES:				
	1) a. Labor			Staff Average	\$ Amount
		Branch Chief 14	0 Hours	\$52	\$0
	1	Section Chief 13	32 Hours	\$44	\$1,408
		Architect/Engineer 12	120 Hours	\$37	\$4,440
		Architect/Engineer 11	104 Hours	\$34	\$3,536
		Technician 7/9	64 Hours	\$26	\$1,664
		Secretary 5/6	24 Hours	\$17	\$408
		other	0 Hours	\$12	\$0
	Subtotal In-House D				\$11,456
	2) Tech Indirect (E	···	64.0%		\$7,332
	3) General Admin (		27.0%		\$3,093
	TOTAL LABOR CHA	RGES			\$21,881
	TRAVEL:				
	4) Travel & Transpo	ortation			
		Per Deim	# Days	\$75	\$0
		Govt Vehicle	500 # Miles	\$0.25	\$125
		Flight	#Trips	\$250	\$O
		Auto Rental	#Times	\$35	\$0
					000000000000000000000000000000000000000
	SUBTOTAL TRAVEL				\$125
	OTHER EXPENSES:				
	5) Graphics				
	· ·	•			
1	6) Misc Expenses				
	6) Misc Expenses	CADD	48 #Hours	\$35	\$1,680
	6) Misc Expenses	Materials	LS	\$35	\$1,680
		Materials Reproduction	LS	\$35	
	SUBTOTAL OTHER I	Materials Reproduction EXPENSES	LS	\$35	\$1,680 \$1,680
		Materials Reproduction EXPENSES	LS	\$35	
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES JER COE: ayments	LS LS Amount	Staff Average	\$1,680 \$ Amount
	SUBTOTAL OTHER I	Materials Reproduction EXPENSES IER COE: ayments Principal	LS LS Amount O Hours	Staff Average	\$1,680 \$ Amount \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES HER COE: ayments Principal Supervisor	LS LS  Amount  O Hours O Hours	Staff Average \$0 \$0	\$1,680 \$ Amount \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES  IER COE: ayments Principal Supervisor Senior Architect/Engineer	Amount O Hours O Hours Hours Hours	Staff Average \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer	Amount  O Hours O Hours O Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES  HER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD	Amount  O Hours O Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES  JER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount  O Hours  O Hours  O Hours  O Hours  Hours  Hours  Hours  Hours  Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa	Materials Reproduction EXPENSES  JER COE:  ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other	Amount  O Hours O Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Materials Reproduction EXPENSES  JER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary	Amount  O Hours  O Hours  O Hours  O Hours  Hours  Hours  Hours  Hours  Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials	Materials Reproduction EXPENSES  HER COE: Tayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount  O Hours O Hours O Hours O Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor  b. Materials c. Transportation	Materials Reproduction EXPENSES  HER COE: Tayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount O Hours O Hours O Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER I CONTRACTS & OTH 8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit	Materials Reproduction EXPENSES  JER COE:  ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal	Amount  O Hours O Hours O Hours O Hours Hours Hours Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pare	Materials Reproduction EXPENSES  IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's)	Amount O Hours O Hours O Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pa	Materials Reproduction EXPENSES  IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg. 1144's)	Amount O Hours O Hours O Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Paris	Materials Reproduction EXPENSES  IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's)	Amount O Hours O Hours O Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Paris	Materials Reproduction EXPENSES  IER COE: ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE	Amount O Hours O Hours O Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pare 10) Other Government SUBTOTAL CONTRACTS SUMMARY 11) Total Estimated	Materials Reproduction EXPENSES  JER COE: Tayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal  on yments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE	Amount  O Hours O Hours O Hours O Hours Hours Hours LS LS LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pare 10) Other Government SUBTOTAL CONTRACTS SUMMARY 11) Total Estimated	Materials Reproduction EXPENSES  JER COE:  ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CADD Secretary other labor subtotal on yments (eg. 2544's) ment Payments (eg. 1144's) ACTS & OTHER COE  d Cost for Account 30.A. Account 30.A.A.	Amount O Hours O Hours O Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHE	ET							
	PROJECT:	WILLAMETTE RIVER TEM	PERATI	JRE CO	NTRO	EFEAS	BILITY	STUE	ŀΥ
	TASK:	Blue River EDC							
	OFFICE:	Civil and Environmental Design S	Section			HOURS			
	DIRECT LABOR ACTI	VITY	14	13	12	11	9	5/6	other
	Site Visits	<u> </u>	1 1 1	16	32	24	<del>                                     </del>	4	Other
	Review of Submittals/ VE			8	40	40	16	4	
	Modifications Preparation		<u> </u>	8	40	40	40	16	
	Pro Canata Mastina		<u> </u>	<u> </u>	8	_	<b></b>		
	Pre-Constr. Meeting		<del> </del>		٥		<del> </del>		
	As-Builts		<del> </del>				8	<u> </u>	
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			0	32	120	104	64	24	0
						HOURS			
	A/E LABOR ACTIVITY		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
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	A/E LABOR TOTALS		0	0	0	0	0	0	0
			_						
	REMARKS					_		- <del></del>	
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BEDC.XLW

	<b>BUDGET WORKS</b>	SHEET			26-Aug-94
	PROJECT:	WILLAMETTE RIVER TE	MPERATURE CONTR	ROL FEASIBILIT	Y STUDY
	TASK:	Blue River EDC		ORG CODE	
	OFFICE:	Electrical Design		DD	
	DIRECT CHARGES:				
	1) a. Labor		Amount	Staff Average	\$ Amount
		Branch Chief 1	4 0 Hours	\$52	<b>\$</b> 0
		Section Chief 13	3 26 Hours	\$44	\$1,144
		Architect/Engineer 12	132 Hours	\$37	\$4,884
		Architect/Engineer 11	256 Hours	\$34	\$8,704
		Technician 7/		\$26	\$1,872
		Secretary 5	/6 28 Hours	\$17	\$476
		other	0 Hours	\$12	\$O
	Subtotal In-House Di	irect Labor			\$17,080
	2) Tech Indirect (E	•	64.0%		\$10,931
	<ol><li>General Admin (</li></ol>		27.0%		\$4,612
	TOTAL LABOR CHA	RGES			\$32,623
	TRAVEL:				
	4) Travel & Transpo	ortation			
		Per Dei	m 6 # Days	\$100	\$600
		Govt Vel	nicle 2400 # Miles	\$0.25	\$600
		Flig	ht 2 #Trips	\$500	\$1,000
		Auto Re	ental 1 #Times	\$150	\$150
1,000,000					
	SUBTOTAL TRAVEL				\$2,350
Name of Street	OTHER EXPENSES:				\$250
	5) Graphics				1 5750
	0) 44: 5				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	6) Misc Expenses	CAF	ND [40]#U0	A2E	
	6) Misc Expenses	CAE		\$35	\$1,680
	6) Misc Expenses	Materia	ls LS	\$35	\$1,680 \$100
	6) Misc Expenses SUBTOTAL OTHER I	Materia Reproduc	ls LS	\$35	\$1,680
	·	Materia Reproduc EXPENSES	ls LS	\$35	\$1,680 \$100 \$250
	SUBTOTAL OTHER E	Materia Reproduc EXPENSES IER COE:	ls LS	\$35 Staff Average	\$1,680 \$100 \$250
	SUBTOTAL OTHER E	Materia Reproduc EXPENSES IER COE:	ls LS tion LS		\$1,680 \$100 \$250 \$2,280
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduc EXPENSES IER COE: ayments	ls LS tion LS  Amount	Staff Average	\$1,680 \$100 \$250 \$2,280 \$ Amount
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduc EXPENSES IER COE: ayments Principal	Amount  O Hours O Hours	Staff Average	\$1,680 \$100 \$250 \$2,280 \$ Amount \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduc EXPENSES IER COE: ayments Principal Supervisor	Amount  O Hours O Hours	Staff Average \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$ Amount \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduc EXPENSES IER COE: ayments Principal Supervisor Senior Architect/Enginee	Amount  O Hours O Hours O Hours O Hours O Hours	Staff Average \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 <b>\$2,280</b> \$ Amount \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduce EXPENSES  IER COE:  ayments Principal Supervisor Senior Architect/Enginee Architect/Engineer	Amount  O Hours O Hours O Hours O Hours O Hours	Staff Average \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$Amount \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduce EXPENSES  IER COE: Byments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$ Amount \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduce EXPENSES  IER COE:  ayments Principal Supervisor Senior Architect/Enginee Architect/Engineer Technician / Drafter/CAl Secretary	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$Amount \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa	Materia Reproduce EXPENSES  IER COE:  ayments Principal Supervisor Senior Architect/Enginee Architect/Engineer Technician / Drafter/CAl Secretary other	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 <b>\$2,280</b> \$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Materia Reproduce EXPENSES  JER COE:  ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER IS CONTRACTS & OTH 8) A/E Contract Pa a. Labor b. Materials	Materia Reproduce EXPENSES  JER COE:  ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pay	Materia Reproduce EXPENSES  IER COE: The ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal on the ayments (eg. 2544's)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pay	Materia Reproduce EXPENSES  IER COE: Tayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal  on  yments (eg. 2544's) ment Payments (eg. 1144)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pay	Materia Reproduce EXPENSES  IER COE: Tayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal  on  yments (eg. 2544's) ment Payments (eg. 1144)	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER E CONTRACTS & OTH 8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit 9) Other Corps Pay 10) Other Governm SUBTOTAL CONTRA	Materia Reproduce EXPENSES  IER COE: Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal con syments (eg. 2544's) ment Payments (eg. 1144 ACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS 10.0%	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pay 10) Other Governm SUBTOTAL CONTRA  SUMMARY 11) Total Estimated	Materia Reproduce EXPENSES  IER COE:  ayments Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal  on  yments (eg. 2544's) ment Payments (eg. 1144 CTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours U Hours O Hours O Hours O Hours O Hours O Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Pay 10) Other Governm SUBTOTAL CONTRA  SUMMARY 11) Total Estimated	Materia Reproduce EXPENSES  IER COE: Principal Supervisor Senior Architect/Engineer Architect/Engineer Technician / Drafter/CAl Secretary other labor subtotal con syments (eg. 2544's) ment Payments (eg. 1144 ACTS & OTHER COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS 10.0%	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,680 \$100 \$250 \$2,280 \$2,280 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEM	PERAT	URE CO	ONTRO	L FEAS	SIBILITY	STUE	χ
	TASK: Blue River EDC							
	OFFICE: Electrical Design							
		<u></u>	<del></del>		HOURS			
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	Project Review	<del>                                     </del>	6	8	4			
	D. C. Marking	┼	ļ	<del>  </del>			ļ	
	PreCon Meeting	┼	<del> </del>	8	<u> </u>			ļ
-	Submittal and VE Review	<del> </del>	2	12	40		4	<u> </u>
	Site Visits/Field Inspections	<del> </del>	8	24	40	ļ	4	
	Factory Inspections Assistance to Construction Office	<del> </del>	2	20 12	20	24	4	<b> </b>
	Modifications	<del> </del>	8	16	32 16	24 8	4	ļ
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	O&W Mariuar	<b></b>	<del> </del>		80		4	
	As Built Drawings	+	<del>                                     </del>	8	24	40		
	As-Built Drawings	-		°	24	40	8	
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	BUDGET WORKS	SHEET					26-Aug-94
	PROJECT:	WILLAMETTE RI	VER TEMPE	RATUR	E CONTRO	L FEASIBILIT	Y STUDY
	TASK:	Blue River EDC				ORG CODE	
	OFFICE:	Mechanical Design	gn			DF	
	DIRECT CHARGES:						
	1) a. Labor			Amour	nt :	Staff Average	\$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	4	Hours	\$44	\$176
		Architect/Engine	er 12	0	Hours	\$37	\$0
		Architect/Engine	er 11	72	Hours	\$34	\$2,448
		Technician	7/ 9	16	Hours	\$26	\$416
		Secretary	5/6	8	Hours	\$17	\$136
		other		0	Hours	\$12	\$0
	Subtotal In-House Di	irect Labor		<u> </u>	_		\$3,176
	2) Tech Indirect (E	st Rate:)			64.0%		\$2,033
	3) General Admin (	Est Rate:)			27.0%		\$858
	TOTAL LABOR CHA	RGES					\$6,066
	TRAVEL:						
50000000	4) Travel & Transpo	ortation					
	i, marona manopo		Per Deim	·	# Days	\$75	\$O
			vt Vehicle	600	# Miles	\$0.25	\$150
		G	Flight	000	#Trips	\$250	\$0
		1	Auto Rental		#Times	\$35	\$0
		•	-dio Heritai	L	]# 1111163	<del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del>	40
	SUBTOTAL TRAVEL						\$150
	OTHER EXPENSES:						
222200	5) Graphics						
	6) Misc Expenses						
	•		CADD	16	#Hours	\$35	\$560
			Materials		LS		\$500
			production		LS		\$500
	SUBTOTAL OTHER E						\$1,560
	CONTRACTS & OTH						
	8) A/E Contract Pa			Amou	nt C	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
	a. Labo.	Supervisor		0	Hours	\$0	\$0
	•	Senior Architect/	Engineer	0	Hours	\$0	\$0
		Architect/Enginee		0	Hours	\$0	\$0
		Technician / Draf		0	Hours	\$0	\$0
		Secretary	101707100	0	Hours	\$O	\$0
		other		0	Hours	\$0	\$0
		labor subtotal			riours	_ +-	\$0
	b. Materials	lubor Subtotur			LS		\$0
	c. Transportation	nn.			LS		\$0
	d. Profit	•••			10.0%		\$0
		yments (eg. 2544)	's)		. 0.0 /0		+
		nent Payments (eg					
	SUBTOTAL CONTRA		-				\$0
		<b>-</b>					
	SUMMARY 11) Total Estimated	Cost for Accoun	+ 20 ^				,
	· ·		ı su.A.		10%		\$7,776
	13) TOTAL FOR	ccount 30.A.A.			10%		\$778 <b>\$8.554</b>
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	TASK WORKSHE								
	PROJECT:	WILLAMETTE RIVER TEN	IPERAT	URE CO	NTRO	L FEAS	SIBILIT'	Y STU	Υ
	TASK:	Blue River EDC							
	OFFICE:	Mechanical Design	T						
	DIDECT I ADOD ACT	I\/ITV	14	10		HOURS		F /2	1
	DIRECT LABOR ACT review submitals and		14	13	12	11	9	5/6	other
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	site visit	HEIL	+	<del>                                     </del>		16	<del> </del>	-	
	modifications		+	4		16	<del> </del>	2	
	modifications		<del></del>	<del>                                     </del>		10			ļ
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	REMARKS								
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BUDGET WORKS	HEE!					26-Aug-94
PROJECT:	WILLAMETTE RIV	ER TEMPE	RATURI	CONTRO	FEASIBILIT	
TASK:	Blue River EDC				ORG CODE	
OFFICE:	Structural and Are	chitectural l	Design		DG	
DIRECT CHARGES:						
1) a. Labor			Amoun	t S	t <u>aff Avera</u> ge	\$ Amount
	Branch Chief	14	0	Hours	\$52	\$0
	Section Chief	13	320	Hours	\$44	\$14,080
	Architect/Enginee	r 12	672	Hours	\$37	\$24,864
	Architect/Enginee	r 11	692	Hours	\$34	\$23,528
	Technician	7/9	450	Hours	\$26	\$11,700
	Secretary	5/6	96	Hours	\$17	\$1,632
	other		0	Hours	\$12	\$0
Subtotal In-House Di	rect Labor					\$75,804
2) Tech Indirect (E	st Rate:)		Ī	64.0%		\$48,515
3) General Admin (	Est Rate:)		Ī	27.0%		\$20,467
TOTAL LABOR CHA	RGES					\$144,786
TRAVEL:						
 4) Travel & Transpo	rtation					
		er Deim	16	# Days	\$75	\$1,200
	Gov	t Vehicle		# Miles	\$0.25	\$800
		Flight		#Trips	\$250	\$0
	Α	uto Rental		#Times	\$35	\$0
SUBTOTAL TRAVEL						\$2,000
OTHER EXPENSES:						
5) Graphics					•	\$0
6) Misc Expenses						
1		CADD	1 220 1	#Hours	1	
					\$35	\$11,550
		<b>laterials</b>		#Hours LS	\$35	\$11,550 \$1,000
	Rep				[_\$35_ <u>]</u>	\$1,000 \$5,000
SUBTOTAL OTHER E	Rep	<b>laterials</b>		LS	\$35	\$1,000
SUBTOTAL OTHER E	Rep EXPENSES	<b>laterials</b>		LS	\$35	\$1,000 \$5,000
	Rep EXPENSES ER COE:	<b>laterials</b>		LS LS	\$35	\$1,000 \$5,000 \$17,550
CONTRACTS & OTH	Rep EXPENSES ER COE:	<b>laterials</b>	Amour	LS LS		\$1,000 \$5,000 \$17,550
CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES ER COE: hyments Principal Supervisor	Materials production	Amour 0	LS LS nt St	aff Average	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount
CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES  ER COE:  syments  Principal  Supervisor  Senior Architect/E	flaterials production	Amour O O	LS LS Int St Hours Hours Hours	taff Average	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount \$0 \$0 \$0
CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES  ER COE:  lyments  Principal  Supervisor  Senior Architect/E  Architect/Engineer	Materials production	Amour O O O	LS LS nt Si Hours Hours	taff Average	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount \$0 \$0
CONTRACTS & OTH 8) A/E Contract Pa	Rep EXPENSES  ER COE:  syments  Principal  Supervisor  Senior Architect/E	Materials production	Amour 0 0 0 0 0 0 0	LS LS  nt S1 Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount \$0 \$0 \$0 \$0 \$0
CONTRACTS & OTH 8) A/E Contract Pa	Report Name of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	Materials production	Amour 0 0 0 0 0 0 0 0	LS LS  nt St Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount \$0 \$0 \$0 \$0
CONTRACTS & OTH 8) A/E Contract Pa	Report No. 10 Per Principal Supervisor Senior Architect/Engineer Technician / Draft	Materials production	Amour 0 0 0 0 0 0 0 0	LS LS  nt S1 Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount \$0 \$0 \$0 \$0 \$0
CONTRACTS & OTH 8) A/E Contract Pa	Report Name of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	Materials production	Amour 0 0 0 0 0 0 0 0	LS LS nt St Hours Hours Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 \$17,550 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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b. Materials c. Transportatio d. Profit 9) Other Corps Pay	Rep EXPENSES  ER COE:  lyments  Principal  Supervisor  Senior Architect/E  Architect/Engineer  Technician / Draft  Secretary other  labor subtotal  on  /ments (eg. 2544's	flaterials production ingineer rer/CADD	Amour 0 0 0 0 0 0 0 0 0 0	LS LS  Int St Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 \$17,550 \$17,550 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportatio d. Profit 9) Other Corps Pay	Report Name of Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19	Anterials production  Ingineer rer/CADD	Amour 0 0 0 0 0 0 0 0 0 0	LS LS  Int St Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 <b>\$17,550</b> \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
b. Materials c. Transportatio d. Profit 9) Other Corps Pay	Report Name of Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19 Page 19	Anterials production  Ingineer rer/CADD	Amour 0 0 0 0 0 0 0 0 0 0	LS LS  Int St Hours Hours Hours Hours Hours Hours Hours Hours LS LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,000 \$5,000 \$17,550 \$17,550 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEM	PERATI	JRE CO	NTRO	LFEAS	BILIT	STUE	ΣY
	TASK: Blue River EDC							
1000000000	OFFICE: Structural and Architectur	al Desig	<u>an </u>					
					HOURS	3		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
	coordination, TM (4 years)	<u> </u>	48		144		24	
	answer RFI's (requests for information)			8		0	24	
	review contractor proposals / VE		4	32	40	40		
	review contractor design features			8	40	40		
	change order review board (6 d/yr)		192	400				
	agency coord. mtgs. (6/yr)			120	40	4.5		ļ
	review shop drawings			8	40	40	24	
	agency corespondance/presentations		8	80				
	site visits, shop visits	ļ	64	128	64			
	pre-construction conference	<u> </u>		8	8	0.40		
	contract modifications		4	16		240	24	
	punchlist/completion inspections			16	16			
	as-built 21 drawings				60	. 90		
	O&M manual coordination	100000000000000000000000000000000000000	Santa Santanana	8	anna 2000 Contanto	Securio de la Principa	i www.co.co.co.co	
		0	320	672	692	450	96	0
					HOURS	3		
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
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	<b>BUDGET WORK</b>	SHEET					26-Aug-94
	PROJECT:	WILLAMETTE RIVE	R TEMPE	RATUF	E CONTRO	L FEASIBILIT	
	TASK:	Blue River EDC				ORG CODE	
	OFFICE:	H & H Branch				DK	
	DIRECT CHARGES	:					
ĺ	1) a. Labor			Amour	_	taff Average	\$ Amount
		Branch Chief	14	72	Hours	\$52	\$3,744
		Section Chief	13	0	Hours	\$44	\$O
		Architect/Engineer			Hours	\$37	<b>\$</b> O
Ī		Architect/Engineer		0	Hours	\$34	<b>\$</b> 0
		Technician	7/ 9	0	Hours	\$26	\$O
		Secretary	5/6	40	Hours	\$17	\$680
l		other		0	Hours	\$12	\$O
l	Subtotal In-House D						\$4,424
	2) Tech Indirect (				64.0%		\$2,831
0000000	3) General Admin				27.0%		\$1,194
	TOTAL LABOR CHA	ARGES					\$8,450
	TRAVEL:						
	4) Travel & Transp	ortation			_		
		Pe	r Deim		# Days	\$75	<b>\$</b> O
		Govt	Vehicle		# Miles	\$0.25	\$0
			Flight		#Trips	\$250	<b>\$</b> O
	j	Au	to Rental		#Times	\$35	<b>\$</b> O
000000000	SUBTOTAL TRAVEL		33		se de la dición de la composición de la composición de la composición de la composición de la composición de la	88.888.8886.000.000.000.000.000	. S
							\$0
	OTHER EXPENSES:						-r
	5) Graphics						L
	6) Misc Expenses		CADD		1411		Γ
		NA	CADD aterials	0	#Hours	\$35	\$0
					LS LS		
	SUBTOTAL OTHER		oduction		LO		***
			_				\$0
	CONTRACTS & OTH			_			
	8) A/E Contract P	•		Amou	•	taff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$0	\$0
	٠	Supervisor		0	Hours	\$0	\$0
		Senior Architect/En	gineer	0	Hours	\$0	\$0
		Architect/Engineer Technician / Drafter	-/OADD	0	Hours	\$0	\$0
			r/CADD	0	Hours Hours	\$0	\$0
		Secretary other		0	_	\$0	\$0
		labor subtotal		0	Hours	\$0	\$0
	b. Materials	labor subtotal			LS		\$0
	c. Transportation	on.			LS		\$0
	d. Profit	OH					\$0
		yments (eg. 2544's)			10.0%		\$O
		ment Payments (eg.					
		ACTS & OTHER COE					\$0
	SUMMARY	TOTO & OTHER OUE					30
	~! 107070 WY						
-		d Cook for Assessed	20. 4				
	11) Total Estimate	d Cost for Account 3	80.A.		100/		\$8,450
	11) Total Estimate	Account 30.A.A.	30.A.		10%		\$8,450 \$845 \$9,295

$\overline{}$	BUDGET WORKS	SHEET					26-Aug-94
ł	PROJECT:	WILLAMETTE RIVE	RTEMPE	RATUR	E CONTRO	DL FEASIBILITY	Y STUDY
	TASK:	Blue River EDC				ORG CODE	
	OFFICE:	Hydraulic Design				DL	
	DIRECT CHARGES:						
	1) a. Labor			Amoun	<u>i</u> t	Staff Average	\$ Amount
	j	Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	68	Hours	\$44	\$2,992
		Architect/Engineer	12	228	Hours	\$37	\$8,436
		Architect/Engineer	11	248	Hours	\$34	\$8,432
		Technician	7/9	0	Hours	\$26	\$O
		Secretary	5/6	0	Hours	\$17	<b>\$</b> 0
		other		0	Hours	\$12	\$O
	Subtotal In-House D	irect Labor			•		\$19,860
	2) Tech Indirect (E	st Rate:)			64.0%		\$12,710
	3) General Admin (	Est Rate:)			27.0%		\$5,362
	TOTAL LABOR CHA	RGES					\$37,933
	TRAVEL:						
	4) Travel & Transpo	ortation	<u>opportuni in pondendendeni</u>	<u> </u>			
	.,		Deim	25	# Days	\$75	\$1,875
			Vehicle		# Miles	\$0.25	\$500
		2011	Flight	1000	#Trips	\$250	\$0
	İ	Διιτ	o Rental		#Times	\$35	\$0
		700	.o nemai		# 1111103	<del>  400</del>	Ψ
	SUBTOTAL TRAVEL						\$2,375
	OTHER EXPENSES:						
0000000	5) Graphics						\$0
	6) Misc Expenses					l	
	·		CADD	0	#Hours	\$35	\$0
		Ma	terials		LS		\$0
			duction		LS		\$0
	SUBTOTAL OTHER I	Repro	oduction		LS		\$0 <b>\$0</b>
	SUBTOTAL OTHER I	Repro EXPENSES	oduction		LS		
	CONTRACTS & OTH	Repro	oduction	Amou		Staff Average	
	CONTRACTS & OTH	Repro EXPENSES IER COE: ayments	oduction		nt S	Staff Average	\$6 \$ Amount
	CONTRACTS & OTH 8) A/E Contract Pa	Repro	oduction	0		Staff Average \$0 \$0	\$0
	CONTRACTS & OTH 8) A/E Contract Pa	Repro		0	nt S	\$O	\$ Amount \$ O
	CONTRACTS & OTH 8) A/E Contract Pa	Repro		0 0	nt S Hours Hours	\$0 \$0	\$ Amount \$ 0 \$ 0
	CONTRACTS & OTH 8) A/E Contract Pa	Repro	gineer	0 0 0	nt S Hours Hours Hours	\$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0
	CONTRACTS & OTH 8) A/E Contract Pa	Repro	gineer	0 0 0 0	nt S Hours Hours Hours Hours	\$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0
	CONTRACTS & OTH 8) A/E Contract Pa	Repro	gineer	0 0 0 0	nt S Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa	Repro	gineer	0 0 0 0	nt S Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0
	CONTRACTS & OTH 8) A/E Contract Pa	Repro EXPENSES  ER COE:  ayments  Principal  Supervisor  Senior Architect/Engineer  Technician / Drafter  Secretary  other	gineer	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	CONTRACTS & OTH 8) A/E Contract Pa a. Labor	Repro	gineer	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  .	Repro	gineer	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	CONTRACTS & OTH  8) A/E Contract Pa a. Labor  b. Materials c. Transportation d. Profit	Repro	gineer	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	b. Materials c. Transportation d. Profit 9) Other Corps Par	Repro EXPENSES  ER COE: ayments Principal Supervisor Senior Architect/Eng Architect/Engineer Technician / Drafter Secretary other labor subtotal	gineer /CADD	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Par	Repro	gineer /CADD	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Materials c. Transportation d. Profit 9) Other Corps Parents SUBTOTAL CONTRA	Repro	gineer /CADD	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	b. Materials c. Transportation d. Profit 9) Other Corps Par 10) Other Governr SUBTOTAL CONTRA	Repro EXPENSES  JER COE:  Syments Principal Supervisor Senior Architect/Engineer Technician / Drafter Secretary other labor subtotal  on yments (eg. 2544's) nent Payments (eg. ACTS & OTHER COE	gineer /CADD	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0
	b. Materials c. Transportation d. Profit 9) Other Corps Par 10) Other Governr SUBTOTAL CONTRA SUMMARY 11) Total Estimated	Repro	gineer /CADD	0 0 0 0 0	nt S Hours Hours Hours Hours Hours Hours LS LS LS	\$0 \$0 \$0 \$0 \$0 \$0	\$ Amount \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0

	TASK WORKSHEET								
	PROJECT: WILLAMETTE RIVER TEMI TASK: Blue River EDC	PERATI	JRE CO	ONTRO	L FEAS	BILITY	STUE	·Υ	
	OFFICE: Hydraulic Design	T			HOURS	<u> </u>			
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other	
	Preconstruction meeting		8	8	8	<u> </u>	0,0	Other	
	Information requests (RFI's)		20						
	Site visits / Field inspections		40	120	120				
	SD and VE reviews			20	40				
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لــــا		0	68	228	248	0	0	0	
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	A/F ! ADOD ACTIVITY	HOURS Prin. Supr. Sr AE AE T/D Sec. oth							
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other	
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	A/E LABOR TOTALS	0	0	0	0	0	0	0	
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	REMARKS								
	NEWARKS								
	PED	C.XLW							

	BUDGET WORK	SHEET					26-Aug-94
	PROJECT:	WILLAMETTE	RIVER TEMPE	RATURE	CONTRO	L FEASIBIL	ITY STUDY
	TASK:	Blue River EDC				ORG CODE	
	OFFICE:	Reservoir Regu	lation & Wate	r Qualit	у	DR	
	DIRECT CHARGES:		17.				
İ	1) a. Labor		=	Amoun	t S	Staff Averag	ge \$ Amount
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	24	Hours	\$44	\$1,056
		Architect/Engir	neer 12	120	Hours	\$37	\$4,440
l		Architect/Engir	neer 11	160	Hours	\$34	\$5,440
		Technician	7/ 9	0	Hours	\$26	\$0
		Secretary	5/6	0	Hours	\$17	\$O
		Stay-In-School	3/4	0	Hours	\$12	\$0
l	Subtotal In-House D	irect Labor					\$10,936
	2) Tech Indirect (I	Est Rate:)		Ī	64.0%		\$6,999
	3) General Admin	(Est Rate:)			27.0%		\$2,953
	TOTAL LABOR CHA	RGES					\$20,888
	TRAVEL:						
	4) Travel & Transpo	ortation				***************************************	
<u> </u>	1		Per Deim	0	# Days	\$75	\$O
		(	Govt Vehicle		# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$O
			Auto Rental		#Times	\$35	\$O
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
	5) Graphics						\$0
ļ	6) Misc Expenses						
			CADD	0	#Hours	\$35	\$0
			Materials		LS		\$0
			Reproduction		LS		\$500
	SUBTOTAL OTHER	EXPENSES					\$500
	CONTRACTS & OTI	HER COE:					
	8) A/E Contract P	ayments		Amour	nt S	taff Averag	e \$ Amount
	a. Labor	Principal		0	Hours	\$O	<b>\$</b> 0
	,	Supervisor		0	Hours	\$O	\$0
		Senior Archited	t/Engineer	0	Hours	\$O	<b>\$</b> 0
İ		Architect/Engir	ieer	0	Hours	\$O	\$0
		Technician / Dr	after/CADD	0	Hours	\$O	\$0
		Secretary		0	Hours	\$0	\$0
		other		0	Hours	\$O	\$0
		labor subtotai					\$0
	b. Materials				LS		
	c. Transportation	on		_	LS		
	d. Profit			L	10.0%		\$0
	•	ryments (eg. 254		_			
		ment Payments	(eg. 1144's)				
		<del></del>					4000 CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRA
	10) Other Govern SUBTOTAL CONTRA	<del></del>	COE				\$0
	<u> </u>	<del></del>	COE				\$0
	SUBTOTAL CONTRA	<del></del>					\$21,388
	SUBTOTAL CONTRA SUMMARY 11) Total Estimate	ACTS & OTHER	unt 30.A.		20%		

	TASK WORKSHEET							
	PROJECT: WILLAMETTE RIVER TEM TASK: Blue River EDC			ONTRO	L FEAS	(BILIT)	/ STUE	Y
	OFFICE: Reservoir Regulation & W.	ater Qu	ality		HOURS			
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	3/4
	Interum Water Control Manual		24		160			J, ,
	Agency Courd Many (Glow) was you and trushi	alia.		120				
	Agency Coord. Mtgs. (6/yr) res. reg. and turbi	T	<del> </del>	120				<u> </u>
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		<b> </b>						
					-			
		ļ						
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		0	24	120	160	0	0	0
					HOURS	3	-	
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						<u> </u>	
			ļ					
			<u> </u>					
300000000000000000000000000000000000000								
	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS							
	ILMARIO							
<u></u>	BEDC	XI W_						

	ΒU	JDGET WORKS	HEET							26-Aug-94
	PR	OJECT:	WILLAMETTE F	IIVER	TEMPER	ATUR	E CONTR	OL FEASIBI	LITY	STUDY
		SK:	Blue River EDC					ORG CODE		
	10000000	FICE:	Hydrologic, Coa	astal 8	k River			DN		
		RECT CHARGES:	,					3333 <b>1</b>	#0000000000000000000000000000000000000	
	1) :					Amour	ıt	Staff Avera	age	\$ Amount
	l		Branch Chief		14	0	Hours	\$52	ן ֿן	\$0
			Section Chief		13	88	Hours	\$44	1	\$3,872
			Architect/Engin	eer 1		80	Hours	\$37	1	\$2,960
			Architect/Engin				Hours	\$34	1	\$10,880
			Technician		7/ 9	0	Hours	\$26	1 1	\$0
			Secretary		5/6	0	Hours	\$17	1	\$0
			other		5,5	0	Hours	\$12	1	\$0
	Q	btotal In-House Di				<u> </u>	1	7 12	'	\$17,712
	2)	Tech Indirect (E					64.0%		ŀ	\$11,336
Ī	3)	General Admin (					27.0%		ŀ	\$4,782
	-,	TAL LABOR CHA					[27.070]		1	\$33,830
	1000000		NOES							¥33,630
	100000000000000000000000000000000000000	AVEL:								
	4)	Travel & Transpo	ortation		ь.		1 4 5	1-7-	) r	10
					Deim		# Days	\$75		\$0
			C		Vehicle	600	# Miles	\$0.25	1 1	\$150
					Flight		#Trips	\$250	ļ	\$0
1				Auto	Rental		#Times	\$35	j (	\$0
900000		DTOTAL								\$150
		BTOTAL TRAVEL								9130
		HER EXPENSES:							1	
	5)	Graphics							l	-
	6)	Misc Expenses					1	10-	7 1	
					CADD	0	#Hours	\$35	]	\$0
					erials		LS		]	\$200
20000000	عاق والمناول			Reproc	duction	000000000000000000000000000000000000000	LS		00000000	
		BTOTAL OTHER I								\$200
	CO	INTRACTS & OTH	IER COE:							
	8)	A/E Contract Pa	•			Amou	-	Staff Avera	ige .	\$ Amount
		a. Labor	Principal			0	Hours	\$0	1 1	\$0
		÷	Supervisor			0	Hours	\$0	1	\$O
			Senior Architec	t/Engi	ineer	0	Hours	\$0	] [	\$O
	1		Architect/Engin			0	Hours	\$0	] [	<b>\$</b> 0
			Technician / Dr	after/0	CADD	0	Hours	\$0	] [	\$0
			Secretary			0	Hours	\$0	] [	\$0
			other			0	Hours	\$0	]	\$0
			labor subtotal			-	•	· · · · · · · · · · · · · · · · · · ·	-	\$0
		b. Materials					LS			<b>\$</b> 0
	1	c. Transportation	วท				LS			\$0
	1	d. Profit					10.0%			\$0
	9)		yments (eg. 254	l4's)						
	10		ment Payments		144's)					
		BTOTAL CONTRA								\$0
		MMARY	d Cost for Accor	10+ 3C	<b>.</b>					\$34,180
	11	•			J.M.		20%			\$6,836
	12		Account 30.A.A	•			40%		990000	
	113	<ol><li>TOTAL FOR</li></ol>	4 OFFICE							\$41,016

	TASK WORKSHEET							
		DEDAT	ior co	WTOO		100.00		
	PROJECT: WILLAMETTE RIVER TEM  TASK: Blue River EDC	renaii	UNE CL	MIRU	L FEAS	abirii.	rsiut	77
	OFFICE: Hydrologic, Coastal & Rive	~#						
	OFFICE. Hydrologic, Coastal & filvi	සා 			HOURS	<u> </u>		
	DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	other
888888888	Flow Control Analysis of Diversion Scheme			'-			3/0	Other
	Coordination w/RCC (Modified Control)	<del>                                     </del>			20			
<b></b> -	Flow Routings		24		120			
<b>-</b>	. iou itodailigo	<del> </del>	<del></del> -		1.20			
	Site Visits	1	20	20	20			
							<b></b>	
	Report	<del> </del>	<u> </u>				<u> </u>	<u> </u>
	Document Results	<del>                                     </del>	12		40			
<del>                                     </del>		1						
<u> </u>	Interum Water Control Manual	<del> </del>	12		80			
	Coordination		20		40		<b></b>	
	Agency Coord. Mtgs. (3/yr) sedimentation	ļ		60				
<u> </u>			88	80	222			
<u> </u>		0	00	<b>6</b> 0	320	0	0	0
********		T	<del></del>		HOURS			
	A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
	A/E LABOR ACTIVITY	FIIII.	Supr.	SI AL	AL	1/0	Sec.	otriei
<del> </del>		<u> </u>						
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	Man.	-						
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	A/E LABOR TOTALS	0	0	0	0	0	0	0
	REMARKS							
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	BUDGET WORKS	HEET				26-Aug-94
	PROJECT:	WILLAMETTE F	NVER TEMPER	RATURE CONTR	OL FEASIBILI	TY STUDY
	TASK:	Blue River EDC			ORG CODE	
	OFFICE:	Geotechnical E	ngineering		C1	
	DIRECT CHARGES:					
	1) a. Labor			Amount	Staff Average	
		Branch Chief	14	100 Hours	\$52	\$5,200
		STL	13	365 Hours	\$44	\$16,060
		Geol/Engr-Scier		784 Hours	\$37	\$29,008
		Geol/Engr-Scier		96 Hours	\$34	\$3,264
		Technician	7/9	360 Hours	\$26	\$9,360
		Secretary	5/6	8 Hours	\$17	\$136
		other		0 Hours	\$12	\$0
	Subtotal In-House D			<u> </u>		\$63,028
	2) Tech Indirect (E			64.0%		\$40,338
	3) General Admin (			27.0%		\$17,018
	TOTAL LABOR CHA	RGES				\$120,383
	TRAVEL:					
	4) Travel & Transpo	ortation				
			Per Diem	8 # Days	\$75	\$600
		(	Govt Vehicle	6500 # Miles	\$0.25	\$1,625
			Flight	#Trips	\$250	\$0
			Auto Rental	#Times	\$35	\$0
	CHOTOTAL TOALIE					\$2,225
	SUBTOTAL TRAVEL					3/2/2/3
	OTHER EXPENSES:					
ļ	5) Graphics					_
, '	· ·	•				
	6) Misc Expenses	•	CADD	80 #Uaa	625	\$2,800
	· ·	•	CADD Materials	80 #Hours	\$35	\$2,800 \$50
	· ·		Materials	1 LS	\$35	\$2,800 \$50
	6) Misc Expenses				\$35	
	6) Misc Expenses SUBTOTAL OTHER	EXPENSES	Materials	1 LS	\$35	\$50
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH	EXPENSES HER COE:	Materials	1 LS LS		\$50 \$2,850
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES HER COE: ayments	Materials	1 LS LS Amount	Staff Average	\$50 \$2,850
	6) Misc Expenses SUBTOTAL OTHER CONTRACTS & OTH	EXPENSES  IER COE: ayments  Principal	Materials	1 LS LS		\$50 \$2,850 e \$ Amount
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE: ayments Principal Supervisor	Materials Reproduction	1 LS LS Amount 0 Hours	Staff Average	\$50 \$2,850 e \$ Amount \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE: ayments  Principal	Materials Reproduction	1 LS LS Amount 0 Hours 0 Hours	Staff Average	\$50 \$2,850 e \$ Amount \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES HER COE: ayments Principal Supervisor Senior Archited	Materials Reproduction  ct/Engineer	Amount O Hours O Hours Hours Hours	Staff Average \$0 \$0 \$0 \$0	\$50 \$2,850 e \$ Amount \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Supervisor  Senior Archited  Architect/Engin	Materials Reproduction  ct/Engineer	Amount  O Hours O Hours O Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$ Amount \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Supervisor  Senior Archited  Architect/Engin	Materials Reproduction  ct/Engineer	Amount  O Hours O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$ Amount \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Supervisor  Senior Archited  Architect/Engin  Technician / Dr  Secretary	Materials Reproduction  ct/Engineer	Amount O Hours O Hours O Hours O Hours Hours O Hours Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$Amount \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa	EXPENSES  IER COE:  ayments  Principal  Supervisor  Senior Archited  Architect/Engin  Technician / Dr  Secretary  other	Materials Reproduction  ct/Engineer	Amount O Hours O Hours O Hours O Hours Hours O Hours Hours O Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa  a. Labor	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal	Materials Reproduction  ct/Engineer	Amount  O Hours O Hours O Hours O Hours O Hours Hours Hours Hours Hours Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER    CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  b. Materials	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal	Materials Reproduction  ct/Engineer	Amount O Hours O Hours O Hours O Hours O Hours Hours O Hours Hours LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  b. Materials c. Transportation d. Profit	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal	Materials Reproduction  ct/Engineer neer rafter/CADD	Amount O Hours O Hours O Hours O Hours Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 \$2,850 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  b. Materials c. Transportation d. Profit  9) Other Corps Pa  10) Other Governing	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal  on  ayments (eg. 254  ment Payments	Materials Reproduction  ct/Engineer neer rafter/CADD	Amount O Hours O Hours O Hours O Hours Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  b. Materials c. Transportation d. Profit  9) Other Corps Pa	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal  on  ayments (eg. 254  ment Payments	Materials Reproduction  ct/Engineer neer rafter/CADD	Amount O Hours O Hours O Hours O Hours Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 \$2,850 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Expenses  SUBTOTAL OTHER  CONTRACTS & OTH  8) A/E Contract Pa  a. Labor  b. Materials c. Transportation d. Profit  9) Other Corps Pa  10) Other Governing	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal  on  ayments (eg. 254  ment Payments	Materials Reproduction  ct/Engineer neer rafter/CADD	Amount O Hours O Hours O Hours O Hours Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER SUBTOTAL OTHER SUBTOTAL OTHER SUBTOTAL OTHER SUBTOTAL CONTRACTS & OTHER SUBTOTAL CONTRACTS SUMMARY	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal  on  ayments (eg. 254  ment Payments	Materials Reproduction  ct/Engineer neer rafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours LS LS LS LS	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL OTHER SUBTOTAL OTHER SUBTOTAL OTHER SUBTOTAL OTHER SUBTOTAL CONTRACTS & OTHER SUBTOTAL CONTRACTS SUMMARY	EXPENSES  HER COE:  ayments  Principal  Supervisor  Senior Architect  Architect/Engin  Technician / Dr  Secretary  other  labor subtotal  on  ayments (eg. 254  ment Payments  ACTS & OTHER	Materials Reproduction  ct/Engineer neer rafter/CADD  44's) (eg. 1144's)  COE	Amount O Hours O Hours O Hours O Hours Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$taff Average \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$50 \$2,850 e \$Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	TASK WORKSHE	ET							
	PROJECT:	WILLAMETTE RIVER TEMP	PERATI	JRE CO	ONTRO	LFEAS	JBILITY	STUE	γ
	TASK:	Blue River EDC							
160030000000000000000000000000000000000	OFFICE:	Geotechnical Engineering					-		
	SISSOT ! ABOD ACT	** ****		1 40		HOURS		T = 10	1 .,
	DIRECT LABOR ACTI		14	13	12	11	9	5/6	other
	Instrumentation Mon		36	8 8			160		ļ
	Instrumentation Repor	TS .	48				120	4	
-	Review Submittals		70	20				+	
$\vdash \vdash \vdash$	Prepare Modifications	<u> </u>		12					-
<b></b>	As-built Dwgs		<b></b>	25			80		
	Review VE Proposals			4	8				
	Pre-construction Con			16					
	Site Visits		16					4	
			100	365	784	96	360	8	0
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						HOURS	<del></del>		
	A/E LABOR ACTIVITY	Y	Prin.	Supr.	Sr AE		T/D	Sec.	other
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	A/E LABOR TOTALS		0	0	0	0	0	0	0
	A/E EADOIL TO THE					**************************************	•		
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	REMARKS	_							

	<b>BUDGET WORKS</b>	HEET					26-Aug-94
	PROJECT:	WILLAMETTE RI	VER TEMPE	RATUR	E CONTR	OL FEASIBIL	ITY STUDY
	TASK:	Blue River EDC (	FY02 to FY	05)		ORG CODE	
	OFFICE:	Fish and Wildlife	ŧ			EN	
	DIRECT CHARGES:						
	1) a. Labor			Amoun	•	Staff Average	
		Branch Chief	14	0	Hours	\$52	\$0
		Section Chief	13	32	Hours	\$44	\$1,408
		Architect/Engine		400	Hours	\$37	\$14,800
		Architect/Engine		0	Hours	\$34	\$0
		Technician	7/9	0	Hours	\$26	\$0
		Secretary	5/6	0	Hours	\$17	\$0
		other		0	Hours	\$12	<b>\$</b> 0
	Subtotal In-House D						\$16,208
	2) Tech Indirect (E	•			64.0%		\$10,373
	3) General Admin (				27.0%		\$4,376
	TOTAL LABOR CHA	RGES					\$30,957
	TRAVEL:						
	4) Travel & Transpo	rtation					
			Per Deim	20	# Days	\$75	\$1,500
		G	ovt Vehicle	8000	# Miles	\$0.25	\$2,000
			Flight		#Trips	\$250	\$0
			Auto Rental		#Times	\$35	\$0
			usiusupauseus o Siendauliaiseds				
	SUBTOTAL TRAVEL						\$3,500
	OTHER EXPENSES:						
	5) Graphics						
	6) Misc Expenses		0400			405	
			CADD	0	#Hours	\$35	\$0
		D	Materials		LS LS		
	SUBTOTAL OTHER I		eproduction		LO		\$0
							1 00
	CONTRACTS & OTH			A		Choff Associa	
	8) A/E Contract Pa	•		Amou	nt Hours	Staff Averag	ge \$ Amount \$0
	a. Labor	Principal Supervisor		0	Hours	\$0 \$0	\$0
	,	Senior Architect	/Engineer	0	Hours	\$O \$O	\$0
		Architect/Engine	-	0	Hours	\$0	\$0
		Technician / Dra		0	Hours	\$0	\$0
		Secretary	Itel/CADD	0	Hours	\$0	\$0
		other		0	Hours	\$0	\$0
		labor subtotal			lilouis		\$0
	b. Materials	labor subtotal			LS		\$0
	c. Transportation	n .			LS		\$0
	d. Profit	···			10.0%		\$0
		yments (eg. 2544	l's)		, ~ ]		
	•	nent Payments (e		USFS	, ODFW		\$10,000
	SUBTOTAL CONTRA						\$10,000
	SUMMARY						
	~~!T1!!!!			epitetistististi			\$44,457
*********	11) Total Estimated	d Cost for Accoun	nt 30.A.				
	<ul><li>11) Total Estimated</li><li>12) Contingency, A</li></ul>	d Cost for Accourt	nt 30.A.		10%		\$4,446

PROJECT: WILLAMETTE RIVER TASK: Blue River EDC	TEMPERAT	URE C	ONTRO	IL FEA	SIBILIT	Y STU	DY
OFFICE: Fish and Wildlife							
				HOURS			,
DIRECT LABOR ACTIVITY	14	13	12	11	9	5/6	othe
agency coordination meetings		32	320			ļ	
		ļ	<u> </u>			ļ	
				<u> </u>			
site visits			80			<u>                                     </u>	
Site visits			- 50				
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		<b></b>					
	0	32	400	0	0	О	0
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				HOURS	3		
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	othe
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		<u></u>				<b> </b>	<u> </u>
A (7 LA DOD 7074)	000000120000						
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							
\$10,000 for USFS and ODFW monitoring a	ssistance						

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	<b>BUDGET WORKS</b>	SHEET					26-Aug-94
	PROJECT:	WILLAMETTE RIV	ER TEMPE	RATUF	E CONTR	OL FEASIBILI	
	TASK:	Blue River EDC				ORG CODE	
	OFFICE:	Technical Resourc	es Branch			CR	
	DIRECT CHARGES:						
	1) a. Labor			Amou	nt	Staff Average	e \$ Amount
		Branch Chief	14	0	Hours	\$52	<b>\$</b> 0
		Section Chief	13	0	Hours	\$44	\$O
		Architect/Engineer	r 12	0	Hours	\$37	\$0
		Architect/Engineer	r 11	0	Hours	\$34	\$0
		Technician	7/9	16	Hours	\$26	\$416
		Secretary	5/6	16	Hours	\$17	\$272
		Stay-In-School	3/4	8	Hours	\$12	\$96
	Subtotal In-House D	irect Labor					\$784
	2) Tech Indirect (E	Est Rate:)			64.0%		\$502
	3) General Admin (	Est Rate:)			27.0%		\$212
	TOTAL LABOR CHA	RGES					\$1,497
	TRAVEL:						
	4) Travel & Transpo	ortation			<u></u>		
		P	er Deim	0	# Days	\$75	\$0
		Gov	t Vehicle	0	# Miles	\$0.25	\$0
			Flight		#Trips	\$250	\$0
		Α	uto Rental		#Times	\$35	\$0
					<b>-</b>		
	SUBTOTAL TRAVEL						\$0
	OTHER EXPENSES:						
	5) Graphics						\$0
	6) Misc Expenses				_		
			CADD		#Hours	\$35	\$0
			laterials		LS		\$0
			roduction		LS		\$500
	SUBTOTAL OTHER I	EXPENSES					\$500
	CONTRACTS & OTH	IER COE:					
	8) A/E Contract Pa	ayments		Amou	int	Staff Average	\$ Amount
	a. Labor	Principal		0	Hours	\$O	\$0
	,	Supervisor		0	Hours	<b>\$</b> 0	\$0
		Senior Architect/E	-	0	Hours	\$0	\$0
		Architect/Engineer		0	Hours	\$O	\$0
		Technician / Drafte	er/CADD	0	Hours	\$O	\$0
		Secretary		0	Hours	\$0	<b>\$</b> 0
		other		0	Hours	<b>\$</b> 0	\$0
		labor subtotal					\$0
	b. Materials				LS		
	c. Transportation	n			LS		
	d. Profit				10.0%		\$0
	9) Other Corps Pay	yments (eg. 2544's					
1			11111				ı
0.00000		nent Payments (eg.			777		
	10) Other Governm SUBTOTAL CONTRA						\$0
	SUBTOTAL CONTRA SUMMARY	CTS & OTHER CO	E				\$0
	SUBTOTAL CONTRA SUMMARY		E				\$0 \$1,997
	SUBTOTAL CONTRA SUMMARY 11) Total Estimated	CTS & OTHER CO	E		10%		

TASK WORKSHEET							
PROJECT: WILLAMETTE RIVER TEM TASK: Blue River EDC	PERAT	URE CO	NTRO	L FEAS	(BILIT	' STUE	ŀΥ
OFFICE: Technical Resources Bran	ch						
DIRECT LABOR ACTIVITY	14	13	12	HOURS 11	9	5/6	2/4
CR	14	13	12	J 1	9	5/6	3/4
	1						
CP					16		
budget management					10		
CQ							
as-builts						16	8
					-		
		<u> </u>					
	ļ						
	0	0	0	0	16	16	8
	1			HOURS	3		
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE		T/D	Sec.	other
					<u> </u>		
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	+	<u> </u>					
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							

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	BUDGE! A	WORKSHEET				9-Nov-94
	PROJECT:	WILLAMETTI	E RIVER TEMPE	RATURE CONTR	OL FEASIBILITY	
	TASK:	Blue River ED	OC .		ORG CODE	
	OFFICE:	Real Estate			BU	
	DIRECT CHA					
l	1) a. Labor			Amount	Staff Average	\$ Amount
	]	Division Ch.	13	10 Hours	\$42	\$420
1		Branch Ch.	12	50 Hours	\$36	\$1,775
		Attorney	13	50 Hours	\$39	\$1,925
ĺ				0 Hours	\$O	\$0
		Technician	11	10 Hours	\$33	\$325
		Secretary	5/6	10 Hours	\$17	\$165
		other		0 Hours	\$O	\$O
ı	1	louse Direct Labor				\$4,610
		direct (Est Rate:)		68.0%		\$3,135
		Admin (Est Rate:)		18.0%		\$830
	TOTAL LABO	OR CHARGES				\$8,575
	TRAVEL:					
	4) Travel &	Transportation				
l			Per Diem	0 # Days	\$75	\$0
İ			Govt Vehicle	800 # Miles	\$0.25	\$200
			Flight	#Trips	\$250	\$0
			Auto Rental	#Times	\$35	\$0
Market Services					<u></u>	
	SUBTOTAL T	RAVEL				\$200
	OTHER EXPE	NSES:				
						***************************
	5) Graphics					
	<ol> <li>Graphics</li> <li>Misc Exp</li> </ol>					
			CADD	0 #Hours	\$35	\$O
			CADD Materials	0 #Hours 1 LS	\$35	\$0 \$0
	6) Misc Exp	penses			\$35	
	6) Misc Exp		Materials	1 LS	\$35	\$O
	6) Misc Exp	penses	Materials	1 LS	\$35	\$0 \$25
	6) Misc Exp SUBTOTAL O CONTRACTS	penses OTHER EXPENSES	Materials	1 LS LS		\$0 \$25 <b>\$25</b>
	6) Misc Exp SUBTOTAL O CONTRACTS	OTHER EXPENSES  & OTHER COE: tract Payments	Materials	1 LS LS	Staff Average	\$0 \$25 <b>\$25</b> \$ Amount
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	OTHER EXPENSES  & OTHER COE: tract Payments	Materials	1 LS LS	Staff Average	\$0 \$25 \$25 \$ Amount \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	OTHER EXPENSES  & OTHER COE: tract Payments Principal	Materials Reproduction	1 LS LS Amount O Hours	Staff Average \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	THER EXPENSES  & OTHER COE: tract Payments Principal Supervisor	Materials Reproduction	1 LS LS  Amount  O Hours O Hours	Staff Average	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	OTHER EXPENSES  & OTHER COE: tract Payments Principal Supervisor Senior Archite	Materials Reproduction  cct/Engineer neer	Amount O Hours O Hours Hours	Staff Average \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0 \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	THER EXPENSES  & OTHER COE: tract Payments Principal Supervisor Senior Archite Architect/Engi	Materials Reproduction  cct/Engineer neer	Amount O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0 \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	THER EXPENSES  & OTHER COE: tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi	Materials Reproduction  cct/Engineer neer	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0 \$0 \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	THER EXPENSES  & OTHER COE: tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary	Materials Reproduction  cct/Engineer neer	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Exp SUBTOTAL O CONTRACTS 8) A/E Con:	THER EXPENSES  & OTHER COE: tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal	Materials Reproduction  cct/Engineer neer	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0 \$0 \$0
	6) Misc Exp  SUBTOTAL CONTRACTS  8) A/E Contact Labor  b. Mater c. Transp	THER EXPENSES  & OTHER COE: tract Payments	Materials Reproduction  cct/Engineer neer	Amount O Hours O Hours O Hours O Hours O Hours O Hours Hours O Hours O Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0
	6) Misc Exp  SUBTOTAL O  CONTRACTS  8) A/E Conta  a. Labor  b. Mater c. Transp d. Profit	THER EXPENSES  & OTHER COE: tract Payments     Principal     Supervisor     Senior Architet     Architect/Engi     Technician / D     Secretary     other     labor subtotal ials portation	Materials Reproduction ect/Engineer neer Orafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours O Hours LS	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 \$25 \$ Amount \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	SUBTOTAL O CONTRACTS 8) A/E Con- a. Labor  b. Mater c. Transp d. Profit 9) Other Co	THER EXPENSES  & OTHER COE:  tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal  ials portation  orps Payments (eg. 25	Materials Reproduction  ect/Engineer neer  Prafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> <b>\$ Amount</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Mater c. Transp d. Profit 9) Other Co	THER EXPENSES  & OTHER COE:  tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal rials portation  orps Payments (eg. 25 Government Payments	Materials Reproduction  ect/Engineer neer Orafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> <b>\$ Amount</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Mater c. Transp d. Profit 9) Other Co	THER EXPENSES  & OTHER COE:  tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal  ials portation  orps Payments (eg. 25	Materials Reproduction  ect/Engineer neer Orafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> <b>\$ Amount</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Mater c. Transp d. Profit 9) Other Co	THER EXPENSES  & OTHER COE:  tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal rials portation  orps Payments (eg. 25 Government Payments	Materials Reproduction  ect/Engineer neer Orafter/CADD	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> <b>\$ Amount</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Mater c. Transp d. Profit 9) Other Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldness Couldnes	THER EXPENSES  & OTHER COE:  tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal rials portation  orps Payments (eg. 25 Government Payments	Materials Reproduction  ect/Engineer neer  Prafter/CADD  44's) (eg. 1144's) COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> <b>\$ Amount</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	b. Mater c. Transp d. Profit 9) Other Co SUBTOTAL C SUMMARY 11) Total Est	THER EXPENSES  & OTHER COE: tract Payments     Principal     Supervisor     Senior Archite     Architect/Engi     Technician / D     Secretary     other     labor subtotal rials portation  orps Payments (eg. 25 Government Payments ONTRACTS & OTHER	Materials Reproduction  ect/Engineer neer Orafter/CADD  44's) (eg. 1144's) COE	Amount O Hours O Hours O Hours O Hours O Hours O Hours U Hours U Hours U Hours U Hours U Hours U Hours	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$25 <b>\$25</b> <b>\$ Amount</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

TASK WORKSHE								
PROJECT: TASK: OFFICE:	WILLAMETTE RIVER TEM Blue River EDC Real Estate	PERATI	JRE CO	NTRO	L FEAS	(BILIT)	( STUE	γ
					HOURS	}		
DIRECT LABOR ACT		13	12	13		11	5/6	other
Monitor and modify	MOU	10	50	50		10	10	
							-	
·								
								<u> </u>
			-					<u> </u>
		10	50	50	0	10	10	0
		<b></b>	30	JU		1.0	10	<u> </u>
					HOURS	3		
A/E LABOR ACTIVIT	Υ	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
- · <del>-</del>								
								-
A/E LABOR TOTALS	<u> </u>	0	0	0	0	0	0	0
REMARKS								

BEDC:XLW

BASE	LINE	SCOP	E OF V	WORF	ζ.		
PROJECT:						DATE PR	EPARED:
Willamette Te	nperatui	re Conti	rol- BLU	E RIVE	ER		8/22/94
SUBPRODUCT TITLE: Project Manag	ement					SUBPROI	OUCT #/WBS ID:
TECHNICAL MANAGER:	OFFICE	COBS:	PROJEC	CT/STUD	Y MANAGE	<u>!</u> R:	OFFICE/OBS:
Doug Clarke	NPP-	PM	1	Clarke		- **	NPP-PM
Subproduct Summary Descriptio	n (attach	additio	nal detai	il sheets	as necessary	/ <b>)</b> :	
The project manager (PM) is resp	•				-	•	ves as leader of the project
team in accordance with ER 5-7-				-			
project's cost and schedule, appr				-			<u>-</u>
outside agencies and the media, a		_				-	
outside agencies and including					p. 0,000	8	- F
The estimated cost includes prepare	aration o	f month	ilv report	ts for th	e PRB innut	t and prog	ressing of official District
schedules in Open Plan, preparati			•		•		_
Schedules in Open Flam, preparati	on or no	ecssar y	program	minig u	Journalits, an	ia mpat or	anocations into Divis.
Due to the need to maintain floor	l control	during	construc	tion an	d the reculting	na agne in	the construction schedule
the level of project management		_		•			•
the level of project management of	mort art	ei com	iaci awai	u is exp	ected to pea	k during t	ne summer.
-							
UPWARD REPORTED	%	INT	TERNAL			%	
MILESTONES DATE	COMPL	MILE	STONES	1	DATE	COMPL	COMMITMENT TO
							SCOPE, BUDGET,
<b>N7</b> /4			BT/A				AND SCHEDULE:
N/A			N/A				
							<del></del>
							PM
	FY 99	FY00	FY01	FY02	OUTYEAR	TOTAL	PM-S
CONSTRUCTION COST							PM-P
				CONTI	NGENCY	NT/A	
TOTAL CONSTRUCTION COST			· · · · · · · · · · · · · · · · · · ·			N/A	
BASELINE ALLOCATION *	21	42	42	66	243	414	
	isaga agunta (a 1960 <del>-19</del> 📥 )			contributions in a contractor	NGENCY	32	
TOTAL ESTIMATE						446	1
Submitted:	9/8/	94	Approve	d:			
(Technical Manager)	(Date	<i>F.</i>		(Project)	Study Manag	er)	(Date)
(Teenineal Manager)	(Datt	-)		(I I UJECE	windy manag	,,	(Date)

^{*} Allocation does not include Contingency, and is the approved budget amount.

	i i	
-		
,		

	BASE	LINE	SCOP	E OF V	WORK	ζ.		Page 2	
	tte Temp	Control -	- BLUE	RIVER			DATE PR	8/22/94	
SUBPRODUCT TITLE:	Project 1	Manageme	ent				SUBPROD	OUCT #/WBS	S ID:
TECHNICAL MANAGER: Doug Clarke	Tioject	OFFICE NPP-PI	/OBS:		CT/STUD Clarke	Y MANAGE	R:	OFFICE/O	BS:
ORGANIZATION	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	TOTAL
PM	16	35	35	50	55	55	51	27	324
PM-S	4.5	5	5	14.5	14.5	14.5	15.5	5.5	79
РМ-Р	0.5	2	2	1.5	1.5	1.5	1.5	0.5	11
. <del>.</del>									•
									:
,									,
BASELINE SUB-						·			
PRODUCT ALLOCATION	21	42	42	66	71	71	68	33	414

ATTACH DETAILED SUBPRODUCT DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

#### PM

Open Plan- 1 day/month

BMS/allocation/SACCR actions- 1 days/month

PRB reports/meeting- 1 day/month

Site visit- 2 days/year

Coord, meetings, issue resolution during FDM/P & S- 1/2 day/week (overlap with Cougar)

PM involvement during construction season- 1 days/week

Programming actions- 10 days /year

FY 00 - 01: Subtract open plan, PRB, programming, site visit due to Cougar overlap

FY 99

25 days

FY 00 - 01 FY 02 - 05 44 days/year 64 days/year

FY 06

32 days

Total for Blue- 401 days = 3208 hours

#### PM-S

PRB reports, BMS allocations, SACCR processing- 1 day/month

Site visit- 1 day/year

Open Plan- 1/2 day/month

Programming actions/forcon- 3 days/year

Work orders/document review- 1 days/month May - Oct

1/2 day/month Nov - Apr

9 days/year (adjusted for overlap with Cougar) FY 99 - 01

FY 02 - 05

31 days/year

15 days

FY 06

Total hours = 1328 hours

## PM-P

Miscellaneous support- 2 days/year

Total hours = 104 hours

PROJECT:

Willamette Temperature Control, BLUE RIVER

TECH ELEMENT:

NPP-PM

ACCOUNT CODE:

30.P & 31.P

Typ. Staff

Flement Ave Cost

					Element Ave.	Cost
<b>Budget Category</b>	Amoun	it	Variab	le	Effective Rate	Estimate
			Direct Charg	100		
1) Labor			Direct Griang	163		
•	Reg	3208	Hours		\$38.00	\$121,904
	OT	0_00	Hours			,
Borrow	ved		Hours			
Borrowed	OT		Hours			
Subtotal Labor		3208	Hours		-	\$121,904
2) Travel & Transport	ation					
Per Di	em	12	# Days		\$75.00	\$900
Govt Vehi	icle	2400	# Miles		\$0.25	\$600
Subtotal Travel					-	\$1,500
3) Supplys & Material	ls		L.S.			
4) Misc Expense		4207	L.S.			\$4,207
5) Facility Accounts						
Reproduct	ion	5000	L.S.			
•	DP		CPU Unit			
Plant & Equipme	ent		Days			
Surv	•		Days			
Core D			Days			
Shops & Ya			Days		-	
Subtotal Facility Accounts	<b>i</b>	5000				\$5,000
6) Contract Payments	(A/E, etc.	.)				
7) Other Corps Payme	-					
8) Other Government	<b>Payments</b>	(eg.	1144's)		_	
Total Direct Charges	for Org				_	\$132,611
			Distributive (	Charges		
9) Technical Indirect (	(Est Rate)			130%		\$158,475
10) General Admin (E	•			27%		\$32,914
Total Distributed Char					<u>-</u> _	\$191,389
<b>Total Estimated Cost</b>	for CENPP	-PM			<del>-</del>	\$324,000
Contingency						\$26,000
Total for Account					- -	\$350,000
TOTAL TOT ACCOUNT						

30.P Total = 60%

31.P Total = 40%

PROJECT:

Willamette Temperature Control, BLUE RIVER

TECH ELEMENT:

NPP-PM-S

ACCOUNT CODE:

30.P & 31.P

Typ. Staff

A0000III 0001.			Element Ave.	Cost
Budget Category	Amount	Variable	Effective Rate	Estimate
		Direct Charges		
1) Labor		<b>3</b>		
Reg	1328	Hours	\$23.03	\$30,584
TO	-	Hours		
Borrowed		Hours		
Borrowed OT		Hours -		
Subtotal Labor	1328	Hours		\$30,584
2) Travel & Transportat	ion			
Per Diem	n 5	# Days	\$75.00	\$375
Govt Vehicle	•	# Miles	\$0.25	\$0
Subtotal Travel				\$375
3) Supplys & Materials		L.S.		
4) Misc Expense	25	L.S.		\$25
5) Facility Accounts				
Reproduction	1	L.S.		
ADF		CPU Unit		
Plant & Equipment	t	Days		
Survey		Days		
Core Dril		Days		
Shops & Yards		Days -	_	•
Subtotal Facility Accounts	0			\$0
6) Contract Payments (	A/E, etc.)			
7) Other Corps Paymen	ts (eg. MIPR's	s)		
8) Other Government P	ayments (eg.	1144's)	_	
Total Direct Charges fo	r Org		_	\$30,984
		Distributive Charg	es	
9) Technical Indirect (E	et Batal	130%	4	\$39,759
		27%		\$8,258
10) General Admin (Est		217	_	\$48,017
Total Distributed Charg			=	
Total Estimated Cost for	r CENPP-PM			\$79,000
Contingency			<u>=</u>	\$6,000
Total for Account				\$85,000

30.P Total = 60%

31.P Total = 40%

PROJECT:

Willamette Temperature Control, BLUE RIVER

**TECH ELEMENT:** 

NPP-PM-P

ACCOUNT CODE:

30.P & 31.P

Typ. Staff

			Element Ave.	Cost
<b>Budget Category</b>	Amount	Variable	<b>Effective Rate</b>	Estimate
		Direct Charges		
1) Labor				
Reç	₹	Hours	\$33.39	\$3,473
01		Hours		
Borrowed		Hours		
Borrowed OT		Hours		A0 470
Subtotal Labor	104	Hours		\$3,473
2) Travel & Transportat	ion			
Per Dien	1 2	# Days	\$75.00	\$150
Govt Vehicle	)	# Miles	\$0.25	\$0
Subtotal Travel				\$150
3) Supplys & Materials		L.S.		
4) Misc Expense	1926	L.S.		\$1,926
5) Facility Accounts				
Reproduction	1	L.S.		
ADF		CPU Unit		
Plant & Equipmen	t	Days		
Survey		Days		
Core Dril		Days		
Shops & Yards		Days -		
Subtotal Facility Accounts	0			\$0
6) Contract Payments (	A/E, etc.)			
7) Other Corps Paymen	ts (eg. MIPR's	s)		
8) Other Government P	ayments (eg.	1144's)		
•				\$5,549
Total Direct Charges fo	r Org			¥3,3 <del>4</del> 3
		Distributive Charge	es	
9) Technical Indirect (E	st Rate)	130%	<b>)</b>	\$4,514
10) General Admin (Est	Rate)	27%		\$938
<b>Total Distributed Charg</b>	es			\$5,452
Total Estimated Cost fo	r CENPP-PM			\$11,000
Contingency				\$0
Total for Account				\$11,000

30.P Total = 60%

BAS	SELINE SCOF	PE OF WO	ORK			
PROJECT:					DATE R	EVISED:
Willamette Temperature	Control				Nove	mber 30,1994
TASK TITLE:						UMBER/WBS ID:
Blue River Dam/Construc	tion Manage	ement (	31 Acc	ount)		·
TECHNICAL MANAGER:	OFFICE:			Y MANAGI	ER:	OFFICE:
Kathy Vest	CENPP-CO	Doug C	•			CENPP-DDE-PM
TASK SUMMARY DESCRIPTION:	(See Atta			or Addi	tional	Detail)
Provide Construction Mana Construction Division and supervision, construction associated with the const	Contracting inspection	ng Divis 1, quali	ion fo ty ass	r contr	act adm	inistration,
It is proposed that Const for this work. A Project and support facilities w duration of the contract.	Engineer will be prov	vould be	assig	ned to	oversee	this project
UPWARD REPORTED	8	INTER			<b>ક</b>	
UPWARD REPORTED MILESTONES DATE	· I	INTER LESTONE		DATE	% COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
	· I			DATE	-	SCOPE, BUDGET,
	· I	LESTONE		DATE FY00	-	SCOPE, BUDGET,
MILESTONES DATE	COMPL MI	LESTONE	S		COMPL	SCOPE, BUDGET,
MILESTONES DATE	COMPL MI	LESTONE	FY99	FY00	TOTAL 7594.0	SCOPE, BUDGET,
MILESTONES DATE  CONSTRUCTION COST	COMPL MI	LESTONE	FY99		TOTAL 7594.0 1139.1	SCOPE, BUDGET,
MILESTONES DATE	COMPL MI	LESTONE	FY99	FY00	TOTAL 7594.0	SCOPE, BUDGET,
MILESTONES DATE  CONSTRUCTION COST  TOTAL CONSTRUCTION COST	COMPL MI	FY98	FY99 CONTIN	FY00 NGENCY	TOTAL 7594.0 1139.1 8733.1	SCOPE, BUDGET,
	COMPL MI	FY98	FY99 CONTIN	FY00 IGENCY 61.0	TOTAL 7594.0 1139.1 8733.1	SCOPE, BUDGET,
MILESTONES DATE  CONSTRUCTION COST  TOTAL CONSTRUCTION COST  TOTAL TASK ALLOCATION *	COMPL MI	FY98	FY99 CONTIN	FY00 NGENCY	TOTAL 7594.0 1139.1 8733.1	SCOPE, BUDGET,
MILESTONES DATE  CONSTRUCTION COST  TOTAL CONSTRUCTION COST	FY96 FY97	FY98	FY99 CONTIN	FY00 IGENCY 61.0	TOTAL 7594.0 1139.1 8733.1	SCOPE, BUDGET,
MILESTONES DATE  CONSTRUCTION COST  TOTAL CONSTRUCTION COST  TOTAL TASK ALLOCATION *  TOTAL ESTIMATE	FY96 FY97	FY98  Page 193.5	FY99 CONTIN	FY00 IGENCY 61.0	TOTAL 7594.0 1139.1 8733.1 1224.3 122.4 1346.7	SCOPE, BUDGET,

^{*} Allocation does not include Contingency, and is the approved budget amount.

#### Page 2 **BASELINE SCOPE OF WORK** PROJECT: DATE REVISED: Willamette Temperature Control 30 Nov 1994 TASK TITLE: TASK NUMBER/WBS ID: Blue River Dam/Construction Management (31 Account) TECHNICAL MANAGER: OFFICE: PROJECT/STUDY MANAGER: OFFICE: CENPP-CO Kathy Vest Doug Clarke CENPP-DDE-PM FY 96 | FY97 | FY98 ORGANIZATION FY 99 FY 00 FY 01 FY 02 FY 03 TOTAL Resident Office 227.6 238 237.5 237.5 49.5 989.6 31A1 District Office 30.1 31.4 31.4 31.4 6.5 130.8 31C1 Contracting Div 3.9 3.9 3.9 3.9 0.2 15.8 CT-P 31C2 Engr Div (Shop 1.5 1.5 1.5 1.5 6.0 Dwg Review) 31C2 Proj Mngmt PM-P 31E0 Operations Div 19.2 19.2 19.2 19.2 4.8 81.6 OP-P 31C2 TOTAL TASK 294 293.5 293.5 61.0 ALLOCATION 282.3

ATTACH DETAILED TASK DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

#### **BWFBWTB.XLS**

BUDGET WORKSI					11/30/94	
PROJECT:	WILLAMETTE RIVER TI			L FEASIBILI	TY STUDY	
TASK:	Blue River Construction	ı Man <del>ageme</del> r	t .		ORG CODE	
OFFICE:	Construction Division (	District Ofc)			FB/FC	
LABOR CHARGES	(Preparation Phase): (2 Wee	ks)				
1) a. Labor			Amount		Staff Ave	\$ Amount
<del></del>	Chief (14)		0.25	Hours	\$63	\$16
	Branch Chief (13)		0.25	Hours	\$44	\$11
	CA Engineer (12)		1	Hours	\$42	\$42
	Budget Tech. (7/8)		3	Hours	\$19	\$57
	Support Svcs Spec (7)		1	Hours	\$21	\$21
	Secretary (5)		2	Hours	\$15	\$30
	Other			Hours	\$0	0
				<del></del>		•
Subtotal In-Hous	e Direct Labor					\$177
2) Tech Indirect (	Est. Rate:)	68.00%				\$120
3) G&A Rate (Est	•	20.00%	4			\$35
	ges (Preparation Phase):	1 20,00%				\$332
	(Construction Phase):	172	Weeks			
4) a. Labor	(bonotidation i nada).	.,_	Amount		Staff Ave	\$ Amount
,, с. 2000	Chief (14)		86	Hours	\$63	\$5,418
	Branch Chief (13)		86	Hours	\$44	\$3,784
	CA Engineer (12)		344	Hours	\$42	\$14,44
	Budget Tech. (7/8)		688	Hours	\$19	\$13,072
	Support Svcs Spec (7)		86	Hours	\$21	\$1,806
	Secretary (5)		688	Hours	\$15	\$10,320
	Environmental Spec (12	1	172	Hours	\$37	\$6,364
	Environmental Engr (12)		86	Hours	\$33	\$2,838
Subtotal In-House	<u> </u>					\$58,05
5) Tech Indirect (		68.00%				\$39,474
6) G&A Rate (Est	•	20.00%				\$11,610
	. nate). ges (Construction Pluse):	<u> </u>				\$109.13
&		-	10/1			
LABOR CHARGES	(Closeout Phase):	3	Weeks		Cantt A	A A
7) a. Labor	Chief (14)		Amount	7 س	Staff Ave	\$ Amount
	Chief (14) Branch Chief (13)		0.5	Hours Hours	\$63	\$32
			1	Hours	\$44 \$42	\$44 \$42
	CA Engineer (12) Budget Tech. (7/8)		4	Hours	\$19	\$76
	Support Svcs Spec (7)		1	Hours	\$19	\$21
	Secretary (5)		4	Hours	\$15	\$60
	Other		-	Hours	\$15	\$60
	Other			7,,,,,,,	80	
Subtotal In-House	e Direct Labor					\$275
8) Tech Indirect (		68.00%				\$187
9) G&A Rate (Est	•	20.00%				\$55
	. nate). ges (Closeout Phase):	20.0070				\$516
~						
TOTAL DIREC	I FARAK					\$109,98

#### **BWFBWTB.XLS**

PROJECT:	WILLAMETTE RIVER TEMPERATUI		Lteasibilit		
TASK:	Blue River Construction Manageme	nt		ORG CODE	
OFFICE:	Construction Division (District Otc)			FB/FC	
THAVEL:					
10) Travel & Tra	ansportation (Dist Ofc)		_		\$ Amo
	Per Diem (1 RT @ 2dys/month)	94	# Days	\$75	\$7,0
	Govt Vehicle	9400	# Miles	\$.50	\$4,7
	Airlines		# Trips	\$0	\$(
	Auto Rental		# Times	\$0	\$(
Total Direct Tra					\$11,
MISCELLANEOUS					
11) Supplies & N					\$(
12) Reproduction	1				\$(
13) Other	college of Europe				\$( \${
SHOP INSPECTIC	cellaneous Expenses:				1 34
14) a. Labor	Amount		Ç,	taff Ave	Amount
14/ d. Lauvi	Branch Chief (13)	16	THours 5	\$44	\$70
_	Quality Assur Spec (11)	128	Hours	\$28	\$3,5
	duality Assur Opec (11)	120	7,,,,,,,	125	<u> </u>
Subtotal In-Hous	se Direct Labor				\$4,2
15) Tech Indirec		4]			\$2,9
16) G&A Rate (I	· · · · · · · · · · · · · · · · · · ·	→			\$85
Total Direct Lab		<u>.</u>			\$8,0
17) Travel & Tra					\$ Amoi
.,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Per Diem		# Days	\$75	\$(
	Govt Vehicle	1600	# Miles	\$.30	\$48
	Airlines		# Trips	\$0	\$(
	Auto Rental		# Times	<b>\$</b> 0	\$(
<b>Total Direct Tra</b>	vel	<u> </u>			\$48
	enses for Shop Inspection				\$9,8
Contracting Div	ision		_		<b></b>
18) Contracting	Officer	172	Hours	\$40	\$6,8
19) Procureme		595	Hours	\$15	\$8,9
Total Contraction	g Division				\$15,
	TED COST FOR ACCOUNT 31.C.2				\$15,
	TED COST FOR ACCOUNT 31.C.1				\$130,
TOT	AL				\$146
Contingency,	Account 31Z				\$14,
TOTAL FOR A	CCOUNT				\$161
					<b>■</b> 2000000000000000000000000000000000000

### BWFDWTB.XLS

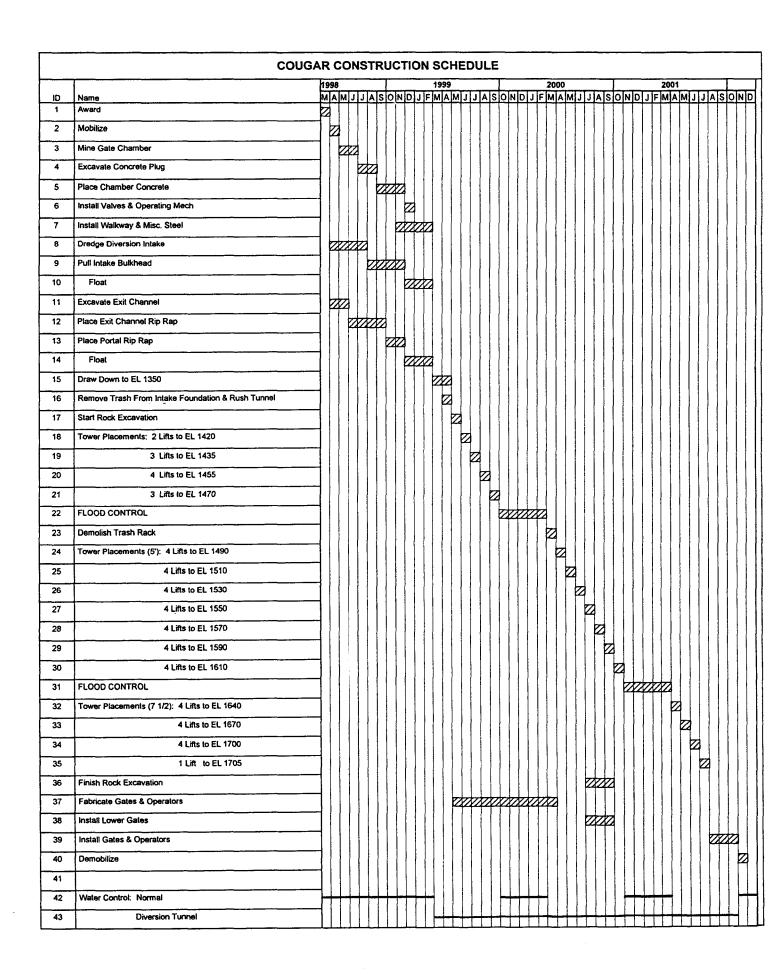
BUDGET WORKS		**************************************			11/30/94	
PROJECT:	WILLAMETTE RIVER TEN			L FEASIBILI I		
TASK:	Blue River Construction I		τ		ORG CODE	
OFFICE:	Construction Division (Fig.	************			FD	
	(Preparation Phase): (2 week	<u>s)</u>				
1) a. Labor	<b>-</b>	1	Amount	7	Staff Ave	\$ Amount
	Resident Engr (14)	*	5	Hours	\$54	\$270
	Proj Manager (13)		16	Hours	\$42	\$672
	CA Engr Tech (11)			Hours	\$30	\$0
	Elect Engr Tech (11)			Hours	\$27	\$0
	QA Inspector (9/11/12)			Hours	\$35	\$0
	Procurement Clrk (5)		4	Hours	\$15	\$60_
	Secretary (6)		1	Hours	\$18	\$18
	Loaned Secretary (4/5)		2	Hours	\$13	\$26_
Subtotal In-Hous						\$1,046
2) Tech Indirect (	Est. Rate:)	68.00%				\$711
3) G&A Rate (Es		20.00%				\$209
	ges (Preparation Phase):					\$1,966
LABOR CHARGES	(Construction Phase):	172	Weeks			
4) a. Labor			Amount		Staff Ave	\$ Amount
-	Resident Engr (14)		86	Hours	\$54	\$4,644
	Proj Manager (13)		6880	Hours	\$42	\$288,960
	CA Engr Tech (11)		86	Hours	\$30	\$2,580
	Elect Engr Tech (11)			Hours	\$27	\$0
	CA Engr (11/12)			Hours	\$38	\$0
	Procurement Cirk (5)		516	Hours	\$15	\$7,740
	Secretary (6)		86	Hours	\$18	\$1,548
	Loaned Secretary (4/5)		3440	Hours	\$13	\$44,720
Subtotal In-Hous	e Direct Labor	•				\$350,192
5) Tech Indirect (	Est. Rate:)	68.00%				\$238,131
6) G&A Rate (Est	t. Rate):	20.00%				\$70,038
Total Labor Char	ges (Construction Phase):					\$658,361
LABOR CHARGES	(Closeout Phase): (3 weeks)			<u></u>		
7) a. Labor			Amount		Staff Ave	\$ Amount
	Resident Engr (14)	1	1	Hours	\$54	\$54
	Proj Manager (13)		16	Hours	\$42	\$672
	CA Engr Tech (11)		4	Hours	\$30	\$120
	Elect Engr Tech (11)			Hours	\$27	\$0
	QA Inspector (9/11/12)		- <del></del>	Hours	\$35	\$0
	Procurement Cirk (5)		4	Hours	\$15	\$60
	Secretary (6)		1	Hours	\$18	118
	Loaned Secretary (4/5)		4	Hours	\$13	41.
Subtotal In-Hous	•			_		\$906
8) Tech Indirect (	Est. Rate:)	68.00%				\$616
9) G&A Rate (Es	ļ•	20.00%				\$181
	ges (Closeout Phase):	_5.55 /6	L			\$1,703

#### **BWFDWTB.XLS**

BUDGET WORKSH	EET			11/30/94	- <del>-</del>
PROJECT:	WILLAMETTE RIVER TEMPERATU	RE CONTROL (	FEASIBILITY ST	UĐY	
TASK:	Blue River Construction Manageme	en <b>t</b>		ORG CODE	
OFFICE:	Construction Division (Field Office)			FD	
THAVEL:					
10) Travel & Tran	sportation				\$ Amount
	Per Diem (2 dys/wk for 20 wks)	160	# Days	\$65	\$10,400
	Govt Vehicle (1 RT per wk)		# Miles	\$.30	\$2,580
	Airlines		# Trips	\$0	\$0
	Auto Rental		# Times	\$0	\$0
Total Direct Trave	il Expenses:				\$12,980
MISCELLANEOUS 6	XPENSES:				
11) Supplies & Ma	terials (\$20/month)				\$940
12) Reproduction	(\$10/month)				\$470
13) Other					\$0
Total Direct Misc	ellaneous Expenses:				\$1,410
CONSTRUCTION IN	ISPECTION: (172 weeks)				-1
14) a. Labor	Amount		Staff /	lve \$ A	lmount
	Constr Inspector (9/11/12)	4128 H	Hours	\$35	\$144,480
-	Other	l l	Hours	\$0	<b>\$</b> 0
		-	'		
Subtotal In-House	Direct Labor				\$144,480
15) Tech Indirect (	Est. Rate:) 68.00%	6			\$98,246
16) G&A Rate (Est	. Rate): 20.00%				\$28,896
Total Direct Labor	· · · · · · · · · · · · · · · · · · ·	_			\$271,622
17) Travel & Trans	sportation				· ·
	Per Diem	160 #	# Days	\$65	\$10,400
	Govt Vehicle		# Miles	\$.30	\$10,320
	Airlines	#	# Trips	\$0	\$0
	Auto Rental	#	Times	\$0	\$0
Total Direct Trave	1				\$20,720
Total Direct Exper	ses for Construction Inspection				\$313,062
TOTAL ESTIMATE	D COST FOR ACCOUNT 31.A.1				\$989,483
Contingency, A	ccount 31Z				\$98,948
)					***************************************
IOIALIONAG					41,000,431
TOTAL FOR AC					\$1,088,431

# APPENDIX B

PRODUCT SCHEDULES



	BLUE	RIVE	ER (	cc	NS	STR	UC	TIC	ON	SC	H	ED	UL	E				_			_									
		2	002	_		$\Box$			20	003		_					20	)4				Γ		_	20	05			$\Box$	
1D 1	Name	N		A 3	JIA	SIC	MC	וום	FM	A	W 3	3/	\ S	ON	D	JF	М	AN	IJ	١,	A S	0	סוא	الد	FM	Αħ	43	JA	s	DND
2	Mobilize	[*]	Ш								1				$  \  $															
3	Cofferdam & Pipes Through Cofferdam	-																												
4	Excavate Concrete Conduits			44						П				ĺ								П								
5	Install Valves & Connect Concrete Conduits to Pipes	$\dashv$			2														'											
6	Foundation Preparation	$\dashv$			1											Ì						Ш								
7	First Lift to EL 1110	-												Ì																
	FLOOD CONTROL	-					$1 \perp$									-														
9	Demolish Trashrack	-							200	٣,																				
10	Tower Placements: 2 Lifts to EL 1120	$\dashv$																												
11	3 Lifts to EL 1135	$\dashv$									19																			
12	4 Lifts to EL 1155	$\dashv$																												
13	4 Lifts to EL 1175	$\dashv$										1																		
14	4 Lifts to EL 1195	-											M	a																
15	FLOOD CONTROL	$\dashv$												7				7			1									
16	Tower Placements: 4 Lifts to EL 1215	$\dashv$		$\  \ $																										
17	4 Lifts to EL 1235	$\dashv$									П																			
18	4 Lifts to EL 1255	$\dashv$																											İ	
19	4 Lifts to EL 1275	$\dashv$									П								١	4					П					
20	4 Lifts to EL 1295	$\dashv$									$\ \cdot\ $		11						$\  \ $	ſ					11					' '
21	4 Lifts to EL 1315	-					П															$\mathbf{z}$			П					
22	4 Lifts to EL 1335	$\exists$									Н											7							ı	
23	FLOOD CONTROL	7																												
24	Tower Placements: 4 Lifts to EL 1355	_								1		1											П	T	П	b				
25	4 Lifts to EL 1375	7																												
26	Fabricate Gates & Operators	$\dashv$								e																	П			
27	Install Lower Gates	$\neg$									$\prod$		$\prod$		T				2											
28	Install Gates & Operators	$\dashv$																									1		$\mathbf{z}$	$ \  \  $
29	Remove Cofferdam	$\neg$																										17		
30	Fill Concrete Conduits	$\dashv$			j																						1			
31	Demobilize	7																										П		
32		7																												
33	Water Control: Normal	7	4	Ц			-	+	$\sqcup$	_				Н	4	Ц	4	4						_	$\sqcup$	+	H		+	$\coprod$
34	Pump	7			4																							$\sqcup$		
35	Diversion	$\neg$				L				L				╛																